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OM nucleic - nucleic search, using sw model

Run on: April 14, 2005, 16:47:11 ; Search time 0.001 Seconds
(without alignments)
1847.636 Million cell updates/sec

Title: US-10-672-866-3
Perfect score: 874
Sequence: 1 ctcgacgctcgtgggttc.....tattaaagaatccaaattc 874

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 0.5

Searched: 55 seqs, 1057 residues
Total number of hits satisfying chosen parameters: 110

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 55 summaries

Database : rni3.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	28	3.2	28	1	US-08-859-998-1011
2	28	3.2	28	1	US-08-859-998-1012
3	28	3.2	28	1	US-09-225-928-1011
4	28	3.2	28	1	US-09-225-928-1012
5	28	3.2	28	1	US-09-225-201B-1011
6	28	3.2	28	1	US-09-225-201B-1012
7	24	2.7	24	1	US-08-023-980B-18
8	24	2.7	24	1	US-08-486-953A-13
9	24	2.7	24	1	US-08-204-052-13
10	21.8	2.5	25	1	5290690-19
11	21.8	2.5	25	1	5290690-19
12	20	2.3	21	1	US-08-023-980B-5
13	20	2.3	21	1	US-08-486-953A-5
14	20	2.3	21	1	US-08-204-052-5
15	17	1.9	21	1	US-08-023-980B-7
16	17	1.9	21	1	US-08-486-953A-7
17	17	1.9	21	1	US-08-204-052-7
18	16.8	1.9	20	1	US-09-068-506-48
19	16.8	1.9	21	1	US-08-023-980B-10
20	16.8	1.9	21	1	US-08-486-953A-10
21	16.8	1.9	21	1	US-08-204-052-10
22	16	1.8	19	1	US-09-545-686-27
23	14.4	1.6	17	1	US-08-412-614-102
24	14.4	1.6	17	1	US-08-412-614-104
25	14.4	1.6	17	1	US-08-635-761-102
26	14.4	1.6	17	1	US-08-635-761-104
27	14.4	1.6	17	1	US-09-312-520-102
28	14.4	1.6	17	1	US-09-312-520-104
29	14.4	1.6	17	1	US-09-863-086-102
30	14.4	1.6	17	1	US-09-863-086-104
31	14	1.6	17	1	US-08-373-124A-962
32	14	1.6	17	1	US-08-373-124A-964
33	14	1.6	17	1	US-08-373-124A-966

34	14	1.6	17	1	US-08-435-628-962	Sequence 962, App
35	14	1.6	17	1	US-08-435-628-964	Sequence 964, App
36	14	1.6	17	1	US-08-435-628-966	Sequence 966, App
37	13.8	1.6	17	1	US-08-584-040-5950	Sequence 5950, App
38	13.8	1.6	17	1	US-09-371-772B-2787	Sequence 2787, App
39	13.8	1.6	17	1	US-09-371-772B-5100	Sequence 5100, App
40	13.8	1.6	17	1	US-09-371-772B-6796	Sequence 6796, App
41	13.8	1.6	17	1	US-09-866-108A-8960	Sequence 8960, App
42	13.8	1.6	17	1	US-09-685-664B-2787	Sequence 2787, App
43	13.4	1.5	16	1	US-09-371-772B-5942	Sequence 5942, App
44	13	1.5	16	1	US-09-371-772B-7004	Sequence 7004, App
45	12.8	1.5	16	1	US-09-371-772B-5969	Sequence 5969, App
46	12.8	1.5	16	1	US-09-371-772B-6103	Sequence 6103, App
47	12.4	1.4	15	1	US-08-311-760A-137	Sequence 137, App
48	12.4	1.4	15	1	US-08-363-240A-144	Sequence 144, App
49	12.4	1.4	15	1	US-08-363-240A-145	Sequence 145, App
50	12.4	1.4	15	1	US-08-774-310-197	Sequence 197, App
51	12	1.4	15	1	US-08-319-492B-148	Sequence 148, App
52	12	1.4	15	1	US-08-363-240A-143	Sequence 143, App
53	12	1.4	15	1	US-08-635-309-24	Sequence 24, Appl
54	12	1.4	15	1	US-08-585-684B-2103	Sequence 2103, App
55	12	1.4	15	1	US-09-038-073-2103	Sequence 2103, App

ALIGNMENTS

RESULT 1
US-08-859-998-1011
; Sequence 1011, Application US/08859998
; Patent No. 5994076
; GENERAL INFORMATION:
; APPLICANT: Chenchik, Alex
; APPLICANT: Johhadze, George
; APPLICANT: Bibilashvili, Robert
; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1375
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 2200 Sand Hill Road, Suite 100
; CITY: Menlo Park
; STATE: CA
; COUNTRY: US
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,998
; FILING DATE: 21-MAY-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Field, Bret E.
; REGISTRATION NUMBER: 37,620
; REFERENCE/DOCKET NUMBER: 09096/002001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-322-5070
; TELEFAX: 415-854-0875
; INFORMATION FOR SEQ ID NO: 1011:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; OTHER INFORMATION: oligonucleotide primer

US-08-859-998-1011

Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 AGTGCAGGCATCATCAATTCGAGCAG 133
DB 1 AGTGCAGGCATCATCAATTCGAGCAG 28

RESULT 2

US-08-859-998-1012/c
; Sequence 1012, Application US/08859998
; Patent No. 5994076
; GENERAL INFORMATION:

APPLICANT: Chenchik, Alex
Bibilashvili, Robert
APPLICANT: Bibilashvili, Robert
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
CORRESPONDENCE ADDRESS:
NUMBER OF SEQUENCES: 1375

ADDRESSEE: Fish & Richardson, P.C.
STREET: 2200 Sand Hill Road, Suite 100
CITY: Menlo Park
STATE: CA
COUNTRY: US
ZIP: 94025

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,998
FILING DATE: 21-MAY-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Field, Bret E.
REGISTRATION NUMBER: 37,620
REFERENCE/DOCKET NUMBER: 09096/002001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-322-5070
TELEFAX: 415-854-0875
INFORMATION FOR SEQ ID NO: 1012:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
OTHER INFORMATION: oligonucleotide primer

US-08-859-998-1012
Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 376 GATCTCACTCTCAGGAGACCATTCGATC 403
DB 28 GATCTCACTCTCAGGAGACCATTCGATC 1

RESULT 3

US-09-225-928-1011
; Sequence 1011, Application US/09225928
; Patent No. 6352829
; GENERAL INFORMATION:

APPLICANT: Chenchik, Alex
Jokhadze, George
Bibilashvili, Robert
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
CORRESPONDENCE ADDRESS:
NUMBER OF SEQUENCES: 1375

ADDRESSEE: Fish & Richardson, P.C.
STREET: 2200 Sand Hill Road, Suite 100
CITY: Menlo Park
STATE: CA
COUNTRY: US
ZIP: 94025

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/225,928
FILING DATE: 05-Jan-1999
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/859,998
FILING DATE: 21-MAY-1997

ATTORNEY/AGENT INFORMATION:
NAME: Field, Bret E.
REGISTRATION NUMBER: 37,620
REFERENCE/DOCKET NUMBER: 09096/002001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-322-5070
TELEFAX: 415-854-0875

INFORMATION FOR SEQ ID NO: 1011:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
OTHER INFORMATION: oligonucleotide primer
SEQUENCE DESCRIPTION: SEQ ID NO: 1011:

US-09-225-928-1011
Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 AGTGCAGGCATCATCAATTCGAGCAG 133
DB 1 AGTGCAGGCATCATCAATTCGAGCAG 28

RESULT 4

US-09-225-928-1012/c
; Sequence 1012, Application US/09225928
; Patent No. 6352829
; GENERAL INFORMATION:

APPLICANT: Chenchik, Alex
Jokhadze, George
Bibilashvili, Robert
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
CORRESPONDENCE ADDRESS:
NUMBER OF SEQUENCES: 1375

ADDRESSEE: Fish & Richardson, P.C.
STREET: 2200 Sand Hill Road, Suite 100
CITY: Menlo Park
STATE: CA
COUNTRY: US
ZIP: 94025

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

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; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/225,928
; FILING DATE: 05-Jan-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/859,998
; FILING DATE: 21-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Field, Bret E.
; REGISTRATION NUMBER: 37,620
; REFERENCE/DOCKET NUMBER: 09096/002001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-322-5070
; TELEFAX: 415-854-0875
; INFORMATION FOR SEQ ID NO: 1012:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; OTHER INFORMATION: oligonucleotide primer
; SEQUENCE DESCRIPTION: SEQ ID NO: 1012:
US-09-225-928-1012

Query Match          3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      376 GATCTCACTCTCAGGACCATTCGCATC 403
Db      28 GATCTCACTCTCAGGACCATTCGCATC 1

RESULT 5
US-09-225-201B-1011
; Sequence 1011, Application US/09225201B
; Patent No. 6489455
; GENERAL INFORMATION:
; APPLICANT: Chenchik, Alex
; Bibilashvilli, Robert
; Jokhadze, George
; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
; EXPRESSION
; NUMBER OF SEQUENCES: 1375
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 2200 Sand Hill Road, Suite 100
; CITY: Menlo Park
; STATE: CA
; COUNTRY: US
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/225,201B
; FILING DATE: 05-Jan-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,998
; FILING DATE: 21-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Field, Bret E.
; REGISTRATION NUMBER: 37,620
; REFERENCE/DOCKET NUMBER: 09096/002001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-322-5070
; TELEFAX: 415-854-0875
; INFORMATION FOR SEQ ID NO: 1012:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; OTHER INFORMATION: oligonucleotide primer
; SEQUENCE DESCRIPTION: SEQ ID NO: 1012:
US-09-225-201B-1012

Query Match          3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      376 GATCTCACTCTCAGGACCATTCGCATC 403
Db      28 GATCTCACTCTCAGGACCATTCGCATC 1

RESULT 6
US-09-225-201B-1012/c
; Sequence 1012, Application US/09225201B
; Patent No. 6489455
; GENERAL INFORMATION:
; APPLICANT: Chenchik, Alex
; Bibilashvilli, Robert
; Jokhadze, George
; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
; EXPRESSION
; NUMBER OF SEQUENCES: 1375
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 2200 Sand Hill Road, Suite 100
; CITY: Menlo Park
; STATE: CA
; COUNTRY: US
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/225,201B
; FILING DATE: 05-Jan-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,998
; FILING DATE: 21-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Field, Bret E.
; REGISTRATION NUMBER: 37,620
; REFERENCE/DOCKET NUMBER: 09096/002001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-322-5070
; TELEFAX: 415-854-0875
; INFORMATION FOR SEQ ID NO: 1012:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; OTHER INFORMATION: oligonucleotide primer
; SEQUENCE DESCRIPTION: SEQ ID NO: 1012:
US-09-225-201B-1012

Query Match          3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      106 AGTGCAGGCGCATCATCAATTCGAGCAG 133
Db      1 AGTGCAGGCGCATCATCAATTCGAGCAG 28

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;
; TELEPHONE: 415-322-5070
; TELEFAX: 415-854-0875
; INFORMATION FOR SEQ ID NO: 1011:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; OTHER INFORMATION: oligonucleotide primer
; SEQUENCE DESCRIPTION: SEQ ID NO: 1011:
US-09-225-201B-1011

Query Match          3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      106 AGTGCAGGCGCATCATCAATTCGAGCAG 133
Db      1 AGTGCAGGCGCATCATCAATTCGAGCAG 28

RESULT 6
US-09-225-201B-1012/c
; Sequence 1012, Application US/09225201B
; Patent No. 6489455
; GENERAL INFORMATION:
; APPLICANT: Chenchik, Alex
; Bibilashvilli, Robert
; Jokhadze, George
; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
; EXPRESSION
; NUMBER OF SEQUENCES: 1375
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 2200 Sand Hill Road, Suite 100
; CITY: Menlo Park
; STATE: CA
; COUNTRY: US
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/225,201B
; FILING DATE: 05-Jan-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,998
; FILING DATE: 21-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Field, Bret E.
; REGISTRATION NUMBER: 37,620
; REFERENCE/DOCKET NUMBER: 09096/002001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-322-5070
; TELEFAX: 415-854-0875
; INFORMATION FOR SEQ ID NO: 1012:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; OTHER INFORMATION: oligonucleotide primer
; SEQUENCE DESCRIPTION: SEQ ID NO: 1012:
US-09-225-201B-1012

Query Match          3.2%; Score 28; DB 1; Length 28;

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Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 376 GATCTCACTCTCAGGAGACCATTCATC 403
Db 28 GATCTCACTCTCAGGAGACCATTCATC 1

RESULT 7
US-08-023-980B-18/c
; Sequence 18, Application US/08023980B
; Patent No. 5843641
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 585 Commercial Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-1024
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/023,980B
; FILING DATE: 26-FEB-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/177001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/723-4123
; TELEFAX: 617/723-8962
; TELEX:
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-023-980B-18

Query Match 2.7%; Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACATCATCTGTTATCCCTGC 579
Db 24 CCCTTAACATCATCTGTTATCCCTGC 1

RESULT 8
US-08-486-953A-13/c
; Sequence 13, Application US/08486953A
; Patent No. 5849290
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/204,052
; FILING DATE: 28-FEB-1994
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/023,980

US-08-486-953A-13

Query Match 2.7%; Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACATCATCTGTTATCCCTGC 579
Db 24 CCCTTAACATCATCTGTTATCCCTGC 1

RESULT 9
US-08-204-052-13/c
; Sequence 13, Application US/08204052
; Patent No. 6723893
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/204,052
; FILING DATE: 28-FEB-1994
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/023,980
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; FILING DATE: 26-FEB-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-204-052-13

Query Match 2.7%; Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACATCTGTTATCCTGC 579
DB 24 CCCTTAACATCTGTTATCCTGC 1

RESULT 10
5290690-19/c
; Patent No. 5290690
; APPLICANT: MRABET, NADIR; LASTERS, IGNACE; STANSSENS, PATRICK
; MATTHYSSENS, GASTON; WODAK, SHOSHANA; QUAX, WILHELMUS J.
; TITLE OF INVENTION: METHODS AND MEANS FOR CONTROLLING THE
; STABILITY OF PROTEINS
; NUMBER OF SEQUENCES: 22
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/398,706
; FILING DATE: 25-AUG-1989
; SEQ ID NO: 19:
; LENGTH: 25
5290690-19

Query Match 2.5%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 8.2;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 418 GGTGGTCCATGAAAGACGATGAC 442
DB 25 GGTGGTCCATGAAAGACGATGAC 1

RESULT 11
5290690-19/c
; Patent No. 5290690
; APPLICANT: MRABET, NADIR; LASTERS, IGNACE; STANSSENS, PATRICK
; MATTHYSSENS, GASTON; WODAK, SHOSHANA; QUAX, WILHELMUS J.
; TITLE OF INVENTION: METHODS AND MEANS FOR CONTROLLING THE
; STABILITY OF PROTEINS
; NUMBER OF SEQUENCES: 22
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/398,706
; FILING DATE: 25-AUG-1989
; SEQ ID NO: 19:
; LENGTH: 25
5290690-19

Query Match 2.5%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 8.2;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 418 GGTGGTCCATGAAAGACGATGAC 442
DB 25 GGTGGTCCATGAAAGACGATGAC 1

RESULT 12
US-08-023-980B-5/c
; Sequence 5, Application US/08023980B
; Patent No. 5843641
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 585 Commercial Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-1024
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/023,980B
; FILING DATE: 26-FEB-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/177001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/723-4123
; TELEFAX: 617/723-8962
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-023-980B-5

Query Match 2.3%; Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 9.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 118 CATCAATTCGAGCAGAAGG 137
DB 21 CATCAATTCGAGCAGAAGG 2

RESULT 13
US-08-486-953A-5/c
; Sequence 5, Application US/08486953A
; Patent No. 5849290
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 176 Federal Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
```

```

;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FastSeq
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,953A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/204,052
; FILING DATE: 28-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223002
; TELEPHONE: 617/428-0200
; TELEFAX: 617/428-7045
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-486-953A-5

Query Match 2.3%; Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 9.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 118 CATCAATTCGAGCAGAAGG 137
DB 21 CATCAATTCGAGCAGAAGG 2

RESULT 15
US-08-023-980B-7/c
; Sequence 7, Application US/08023980B
; Patent No. 5843641
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 585 Commercial Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-1024
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/023,980B
; FILING DATE: 26-FEB-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/177001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/723-4123
; TELEFAX: 617/723-8962
; TELEX:
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-023-980B-7

Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 218 GGAGATAATACAGCAGG 234
DB 21 GGAGATAATACAGCAGG 5

;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FastSeq
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,953A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/204,052
; FILING DATE: 28-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223002
; TELEPHONE: 617/428-0200
; TELEFAX: 617/428-7045
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-486-953A-5

Query Match 2.3%; Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 9.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 118 CATCAATTCGAGCAGAAGG 137
DB 21 CATCAATTCGAGCAGAAGG 2

RESULT 14
US-08-204-052-5/c
; Sequence 5, Application US/08204052
; Patent No. 6723893
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/204,052
; FILING DATE: 28-FEB-1994
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/023,980
; FILING DATE: 26-FEB-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223001
; TELECOMMUNICATION INFORMATION:
```

RESULT 16
US-08-486-953A-7/c
; Sequence 7, Application US/08486953A
; Patent No. 5849290
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TITLE OF INVENTION: TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 176 Federal Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FastSeq
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,953A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/204,052
; FILING DATE: 28-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/428-0200
; TELEFAX: 617/428-7045
; TELEX:
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-486-953A-7
Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 218 GGAGATAATACAGCAGG 234
Db 21 GGAGATAATACAGCAGG 5
RESULT 17
US-08-204-052-7/c
; Sequence 7, Application US/08204052
; Patent No. 6723893
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TITLE OF INVENTION: TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 218 GGAGATAATACAGCAGG 234
Db 21 GGAGATAATACAGCAGG 5

COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/204,052
FILING DATE: 28-FEB-1994
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/023,980
FILING DATE: 26-FEB-1993
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00786/223001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-204-052-7
Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 218 GGAGATAATACAGCAGG 234
Db 21 GGAGATAATACAGCAGG 5
RESULT 18
US-09-068-506-48/c
; Sequence 48, Application US/09068506A
; Patent No. 6589618
; GENERAL INFORMATION:
; APPLICANT: YASUE, Hirofumi
; APPLICANT: YOSHIMURA, Kumamoto
; TITLE OF INVENTION: DIAGNOSIS OF DISEASES ASSOCIATED WITH CORONARY
; TITLE OF INVENTION: TWITCHING
; FILE REFERENCE: 0032-245P
; CURRENT APPLICATION NUMBER: US/09/068,506A
; CURRENT FILING DATE: 1998-07-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 48
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Primers
US-09-068-506-48
Query Match 1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 19;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 168 GCATTAAAGGACTGACTGAA 187
Db 20 GCACTAAAGGACTGCTGAA 1

RESULT 19

US-08-023-980B-10
; Sequence 10, Application US/08023980B
; Patent No. 5843641
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TITLE OF INVENTION: TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 585 Commercial Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-1024
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/023,980B
; FILING DATE: 26-FEB-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/177001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/723-4123
; TELEFAX: 617/723-8962
; TELEX:
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-023-980B-10
Query Match 1.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 21;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 298 AGAGGCGCATGTTGGAGACT 317
Db 2 ATATAGGCGCATGTTGGAGACT 21
RESULT 20
US-08-486-953A-10
; Sequence 10, Application US/08486953A
; Patent No. 5849290
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TITLE OF INVENTION: TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 176 Federal Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/204,052
; FILING DATE: 28-FEB-1994
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/023,980
; FILING DATE: 26-FEB-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-8906
; TELEFAX: 200154

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: FastSeq
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486,953A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/204,052
FILING DATE: 28-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00786/223002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/428-0200
TELEFAX: 617/428-7045
TELEX:
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-486-953A-10
Query Match 1.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 21;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 298 AGAGGCGCATGTTGGAGACT 317
Db 2 ATATAGGCGCATGTTGGAGACT 21
RESULT 21
US-08-204-052-10
; Sequence 10, Application US/08204052
; Patent No. 6723893
; GENERAL INFORMATION:
; APPLICANT: Brown, Robert
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Rosen, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS,
; TITLE OF INVENTION: TREATMENT AND PREVENTION OF DISEASES OF CELL DEATH
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/204,052
; FILING DATE: 28-FEB-1994
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/023,980
; FILING DATE: 26-FEB-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/223001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-8906
; TELEFAX: 200154

; INFORMATION FOR SEQ ID NO: 10:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 21 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

US-08-204-052-10

Query Match 1.9%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 21;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGCGCATGTTGGAGACT 317

||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 2 ATATAGCGCATGTTGGAGACT 21

RESULT 22

US-09-545-686-27

; Sequence 27, Application US/09545686

; Patent No. 6441273

; GENERAL INFORMATION:

; APPLICANT: Aldwinckle, Herbert S.

; APPLICANT: Gaitan, Alvaro L.

; TITLE OF INVENTION: CONSTITUTIVE AND INDUCIBLE PROMOTERS FROM COFFEE PLANTS

; FILE REFERENCE: 19603/3261

; CURRENT APPLICATION NUMBER: US/09/545,686

; CURRENT FILING DATE: 2000-04-07

; PRIOR APPLICATION NUMBER: 60/180,934

; PRIOR FILING DATE: 2000-02-08

; NUMBER OF SEQ ID NOS: 40

; SOFTWARE: Patent In Ver. 2.1

; SEQ ID NO 27

; LENGTH: 19

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

; OTHER INFORMATION: Oligonucleotide Primer

; NAME/KEY: unsure

; LOCATION: (5)

; OTHER INFORMATION: N at any position in this sequence is either A, C,

; OTHER INFORMATION: G, or T.

US-09-545-686-27

Query Match 1.8%; Score 16; DB 1; Length 19;

Best Local Similarity 88.9%; Pred. No. 21;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 195 ATGATTCATGTCATG 212

||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 1 ATGATTCATGTCATG 18

RESULT 23

US-08-412-614-102/c

; Sequence 102, Application US/08412614

; Patent No. 5536638

; GENERAL INFORMATION:

; APPLICANT: Rossau, Rudi

; APPLICANT: Van Heuverswyn, Hugo

; TITLE OF INVENTION: Hybridization Probes Derived from the

; TITLE OF INVENTION: Spacer Region Between the 16S and 23S rRNA Genes for the

; TITLE OF INVENTION: Detection of No. 5536638-Viral Microorganisms

; NUMBER OF SEQUENCES: 104

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Merchant & Gould

; STREET: 3100 No. 5536638west Center

; CITY: Minneapolis

; STATE: MN

; COUNTRY: USA

; ZIP: 55402-4131

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette 3.5 inch, 1.44 mb capacity

; COMPUTER: IBM PC compatible (Compaq Deskpro 286e)

; OPERATING SYSTEM: MS-DOS

; SOFTWARE: Wordperfect Version #5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/412,614

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 07/965,394

; FILING DATE: 17-DEC-1992

; APPLICATION NUMBER: PCT/EP91/00743

; FILING DATE: 18-APR-1991

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: GB/90901054.3

; FILING DATE: 18-APR-1990

; ATTORNEY/AGENT INFORMATION:

; NAME: Hillson, Randall A.

; REGISTRATION NUMBER: 31,838

; REFERENCE/DOCKET NUMBER: 8076.75-USWO

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 612-332-5300

; TELEFAX: 612-332-9081

; INFORMATION FOR SEQ ID NO: 102:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 17 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

US-08-412-614-102

Query Match 1.6%; Score 14.4; DB 1; Length 17;

Best Local Similarity 93.8%; Pred. No. 26;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGCAGCAGGCGGTG 82

||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 16 GCGCAGCAGGCGGTG 1

RESULT 24

US-08-412-614-104/c

; Sequence 104, Application US/08412614

; Patent No. 5536638

; GENERAL INFORMATION:

; APPLICANT: Rossau, Rudi

; APPLICANT: Van Heuverswyn, Hugo

; TITLE OF INVENTION: Hybridization Probes Derived from the

; TITLE OF INVENTION: Spacer Region Between the 16S and 23S rRNA Genes for the

; TITLE OF INVENTION: Detection of No. 5536638-Viral Microorganisms

; NUMBER OF SEQUENCES: 104

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Merchant & Gould

; STREET: 3100 No. 5536638west Center

; CITY: Minneapolis

; STATE: MN

; COUNTRY: USA

; ZIP: 55402-4131

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette 3.5 inch, 1.44 mb capacity

; COMPUTER: IBM PC compatible (Compaq Deskpro 286e)

; OPERATING SYSTEM: MS-DOS

; SOFTWARE: Wordperfect Version #5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/412,614

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 07/965,394

; FILING DATE: 17-DEC-1992

; APPLICATION NUMBER: PCT/EP91/00743

```

; FILING DATE: 18-APR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB/90901054.3
; FILING DATE: 18-APR-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A.
; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75-USWO
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612-332-5300
; TELEFAX: 612-332-9081
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-412-614-104

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAAGCCGTG 82
Db 16 GCGGACGAAGGACGTG 1

RESULT 25
US-08-635-761-102/c
; Sequence 102, Application US/08635761
; Patent No. 5945282
; GENERAL INFORMATION:
; APPLICANT: Rossau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER REGION BE
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 5945282west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/635,761
; FILING DATE: 19-APR-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/965,394
; FILING DATE: 17-DEC-1992
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 29-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A.
; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332/9081
; TELEX:
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
US-08-635-761-104

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAAGCCGTG 82
Db 16 GCGGACGAAGGACGTG 1

; FILING DATE: 18-APR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB/90901054.3
; FILING DATE: 18-APR-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A.
; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75-USWO
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612-332-5300
; TELEFAX: 612-332-9081
; INFORMATION FOR SEQ ID NO: 102:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA

```

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RESULT 27
US-09-312-520-102/c
; Sequence 102, Application US/09312520
; Patent No. 6277577
; GENERAL INFORMATION:
; APPLICANT: Rossau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER REGION BE
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 6277577west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/312,520
; FILING DATE: 19-APR-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: 07/965,394
; FILING DATE: 17-DEC-1992
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 29-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A
; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332/9081
; TELEX:
; INFORMATION FOR SEQ ID NO: 102:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
; US-09-312-520-102

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGCAGCAAGCGCGTG 82
Db 16 GCGCAGCAAGCGCGTG 1

RESULT 28
US-09-312-520-104/c
; Sequence 104, Application US/09312520
; Patent No. 6277577
; GENERAL INFORMATION:
; APPLICANT: Rossau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER REGION BE
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 6277577west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
```

```
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/312,520
; FILING DATE: 19-APR-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: 07/965,394
; FILING DATE: 17-DEC-1992
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 29-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A
; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332/9081
; TELEX:
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
; US-09-312-520-104

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGCAGCAAGCGCGTG 82
Db 16 GCGCAGCAAGCGCGTG 1

RESULT 29
US-09-863-086-102/c
; Sequence 102, Application US/09863086
; Patent No. 6656689
; GENERAL INFORMATION:
; APPLICANT: Rossau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER
; REGION BETWEEN THE 16S A
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 6656689west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/863,086
; FILING DATE: 22-May-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/312,520
```

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/ FILING DATE: <Unknown>
/ APPLICATION NUMBER: 08/412,614
/ FILING DATE: 29-MAR-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Hillson, Randall A
/ REGISTRATION NUMBER: 31,838
/ REFERENCE/DOCKET NUMBER: 8076.75USC1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 612/332-5300
/ TELEFAX: 612/332/9081
/ TELEX: <Unknown>
/ INFORMATION FOR SEQ ID NO: 102:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 17 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: Genomic DNA
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ FRAGMENT TYPE: <Unknown>
/ ORIGINAL SOURCE:
/ SEQUENCE DESCRIPTION: SEQ ID NO: 102:
/
US-09-863-086-102

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAGGCGGTG 82
DB 16 GCGGACGAGGACGTG 1

RESULT 30
US-09-863-086-104/c
/ Sequence 104, Application US/09863086
/ Patent No. 6656689
/ GENERAL INFORMATION:
/ APPLICANT: Rossau, Rudi
/ TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER
/ NUMBER OF SEQUENCES: 104
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
/ STREET: 3100 No. 6656689west Center, 90 S. 7th Street
/ CITY: Minneapolis
/ STATE: MN
/ COUNTRY: U.S.A.
/ ZIP: 55402
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq Version 1.5
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/863,086
/ FILING DATE: 22-May-2001
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 09/312,520
/ FILING DATE: <Unknown>
/ APPLICATION NUMBER: 08/412,614
/ FILING DATE: 29-MAR-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Hillson, Randall A
/ REGISTRATION NUMBER: 31,838
/ REFERENCE/DOCKET NUMBER: 8076.75USC1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 612/332-5300
/ TELEFAX: 612/332/9081
/ TELEX: <Unknown>
/ INFORMATION FOR SEQ ID NO: 104:
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```
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 17 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: both
/ TOPOLOGY: both
/ MOLECULE TYPE: Genomic DNA
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ FRAGMENT TYPE: <Unknown>
/ ORIGINAL SOURCE:
/ SEQUENCE DESCRIPTION: SEQ ID NO: 104:
/
US-09-863-086-104

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 26;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAGGCGGTG 82
DB 16 GCGGACGAGGACGTG 1

RESULT 31
US-08-373-124A-962
/ Sequence 962, Application US/08373124A
/ Patent No. 5646042
/ GENERAL INFORMATION:
/ APPLICANT: Stinchcomb, Dan T.
/ APPLICANT: Draper, Kenneth
/ APPLICANT: McSwiggen, James
/ APPLICANT: Jarvis, Thale
/ TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
/ TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
/ TITLE OF INVENTION: CANCER USING RIBOZYMES
/ NUMBER OF SEQUENCES: 2627
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Lyon & Lyon
/ STREET: 633 West Fifth Street
/ STREET: Suite 4700
/ CITY: Los Angeles
/ STATE: California
/ COUNTRY: U.S.A.
/ ZIP: 90071
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
/ MEDIUM TYPE: storage
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: IBM P.C. DOS 5.0
/ SOFTWARE: Word Perfect 5.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/373,124A
/ FILING DATE: January 13, 1995
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/245,466
/ FILING DATE: May 18, 1994
/ APPLICATION NUMBER: 08/192,943
/ FILING DATE: February 7, 1994
/ APPLICATION NUMBER: 07/987,132
/ FILING DATE: December 7, 1992
/ APPLICATION NUMBER: 07/936,422
/ FILING DATE: August 26, 1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Warburg, Richard
/ REGISTRATION NUMBER: 32,327
/ REFERENCE/DOCKET NUMBER: 209/035
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (213) 489-1600
/ TELEFAX: (213) 955-0440
/ TELEX: 67-3510
/ INFORMATION FOR SEQ ID NO: 962:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 17 base pairs
/ TYPE: nucleic acid
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; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-373-124A-962

Query Match 1.6% Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATATAAA 722
Db 3 AUAGUUUUAUAAAA 16

RESULT 32
US-08-373-124A-964
; Sequence 964, Application US/08373124A
; Patent No. 5646042
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/373,124A
; FILING DATE: January 13, 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 964:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-373-124A-964

Query Match 1.6% Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATATAAA 722
Db 3 AUAGUUUUAUAAAA 16

RESULT 33
US-08-373-124A-966
; Sequence 966, Application US/08373124A
; Patent No. 5646042
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/373,124A
; FILING DATE: January 13, 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 966:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-373-124A-966

Query Match 1.6% Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATATAAA 722
Db 1 AUAGUUUUAUAAAA 14

RESULT 34
US-08-435-628-962
; Sequence 962, Application US/08435628
; Patent No. 5817796
; GENERAL INFORMATION:
```

APPLICANT: Stinchcomb, Dan T.
APPLICANT: Draper, Kenneth
APPLICANT: McSwiggen, James
APPLICANT: Jarvis, Thale
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
TREATMENT OF RESTENOSIS AND
CANCER USING RIBOZYMES
NUMBER OF SEQUENCES: 2627
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
SUITE: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/435,628
FILING DATE: 05-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/373,124
FILING DATE: January 13, 1995
APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
APPLICATION NUMBER: 08/192,943
FILING DATE: February 7, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
FILING DATE: August 26, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/035
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 962:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-435-628-962

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATAAAA 722
Db 3 AUAGUUUAUAAA 16

RESULT 35
US-08-435-628-964
Sequence 964, Application US/08435628
Patent No. 5817796
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Dan T.
APPLICANT: Draper, Kenneth
APPLICANT: McSwiggen, James
APPLICANT: Jarvis, Thale
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
TREATMENT OF RESTENOSIS AND
CANCER USING RIBOZYMES

TITLE OF INVENTION: CANCER USING RIBOZYMES
NUMBER OF SEQUENCES: 2627
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
SUITE: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/435,628
FILING DATE: 05-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/373,124
FILING DATE: January 13, 1995
APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
APPLICATION NUMBER: 08/192,943
FILING DATE: February 7, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
FILING DATE: August 26, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/035
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 964:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-435-628-964

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATAAAA 722
Db 2 AUAGUUUAUAAA 15

RESULT 36
US-08-435-628-966
Sequence 966, Application US/08435628
Patent No. 5817796
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Dan T.
APPLICANT: Draper, Kenneth
APPLICANT: McSwiggen, James
APPLICANT: Jarvis, Thale
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
TREATMENT OF RESTENOSIS AND
CANCER USING RIBOZYMES
NUMBER OF SEQUENCES: 2627
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
SUITE: Suite 4700

;
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,628
; FILING DATE: 05-MAY-1995
; CLASSIFICATION: 514
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/373,124
; FILING DATE: January 13, 1995
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
;
; INFORMATION FOR SEQ ID NO: 966:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-435-628-966

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 29;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATAAAA 722
|||:|:|:|:|:|:|
Db 1 AUAUUUUUAAAA 14

RESULT 37
US-08-584-040-5950/c
; Sequence 5950, Application US/08584040
; Patent No. 6346398
; GENERAL INFORMATION:
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: TREATMENT OF DISEASES OR
; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR
; NUMBER OF SEQUENCES: 8502
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066

;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/584,040
; FILING DATE: January 11, 1996
; CLASSIFICATION: 514
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/005,974
; FILING DATE: October 26, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
;
; INFORMATION FOR SEQ ID NO: 5950:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-584-040-5950

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 30;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 543 TGTAGTCTGAGGCCCT 559
|||||:|:|:|:|:|:|
Db 17 TGCAGTCTGAGGTCCCT 1

RESULT 38
US-09-371-772B-2787/c
; Sequence 2787, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH800,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 2787
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Mus sp.
; US-09-371-772B-2787

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 30;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 543 TGTAGTCTGAGGCCCT 559
|||||:|:|:|:|:|:|
Db 17 TGCAGTCTGAGGTCCCT 1

RESULT 39

US-09-371-772B-5100/c
; Sequence 5100, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MEHB00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5100
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5100

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 30;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 239 ACCAGTCAGGTCCTCA 255
Db 17 ATCAGTCAGGTCCTCA 1

RESULT 40

US-09-371-772B-6796
; Sequence 6796, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MEHB00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6796
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-6796

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 47.1%; Pred. No. 30;
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

Qy 642 ACTTTTCAGTGTGCT 658
Db 1 ACUUUUCAGAGUUGU 17

RESULT 41

US-09-866-108A-8960
; Sequence 8960, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeoica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 8960
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-8960

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 30;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 183 CTGAAGGCGCTGCATGGA 199
Db 1 CTGAAGGCGGACATGGA 17

RESULT 42

US-09-685-664B-2787/c
; Sequence 2787, Application US/09685664B
; Patent No. 6818447
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for Treatment of Diseases or Conditions Related to Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MEHB00-876-K (400/021)
; CURRENT APPLICATION NUMBER: US/09/685,664B
; CURRENT FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040

; PRIOR FILING DATE: 1996-01-08
; PRIOR APPLICATION NUMBER: US 09/371,772
; PRIOR FILING DATE: 1999-08-10
; NUMBER OF SEQ ID NOS: 8231
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2787
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Mus musculus
US-09-685-664B-2787

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 30;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 543 TGTAGTCTGAGGCCCT 559
||| ||||| |||||
DB 17 TGCAGTCTGAGTCCCT 1

RESULT 43
US-09-371-772B-5942/c
; Sequence 5942, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5942
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5942

Query Match 1.5%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 30;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 241 CAGTGCAGGTCCTCA 255
||||| |||||
DB 16 CAGTGCAGTCTCTCA 2

RESULT 44
US-09-371-772B-7004
; Sequence 7004, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26

; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7004
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-7004

Query Match 1.5%; Score 13; DB 1; Length 16;
Best Local Similarity 84.6%; Pred. No. 33;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 421 GGTCATGAAAAA 433
||| |||||
DB 4 GGUCCAUGAAAAA 16

RESULT 45
US-09-371-772B-5969/c
; Sequence 5969, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5969
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5969

Query Match 1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 34;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 638 TGTGACTTTTCAGAG 653
||||| |||||
DB 16 TGTGACATTTTCAGTG 1

RESULT 46
US-09-371-772B-6103
; Sequence 6103, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040

;; PRIOR FILING DATE: 1996-01-08
;; NUMBER OF SEQ ID NOS: 14225
;; SOFTWARE: PatentIn version 3.0
;; SEQ ID NO 6103
;; LENGTH: 16
;; TYPE: RNA
;; ORGANISM: Homo sapiens
US-09-371-772B-6103

Query Match 1.4%; Score 12.8; DB 1; Length 16;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 424 CCATGAAACACAGAT 439
Db 1 CCAUGAAAUCAAU 16

RESULT 47

US-08-311-760A-197/c
; Sequence 197, Application US/08311760A
; Patent No. 559706

;; GENERAL INFORMATION:
;; APPLICANT: Stinchcomb, Dan T.
;; APPLICANT: McSwiggen, James
;; APPLICANT: Newton, Roger S.
;; APPLICANT: Ramharack, Randy
;; TITLE OF INVENTION: RIBOZYME TREATMENT OF DISEASES
;; TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS OF
;; TITLE OF INVENTION: PLASMA LIPOPROTEIN (a) [LP(a)] BY
;; TITLE OF INVENTION: INHIBITING APOLIPOPROTEIN

;; NUMBER OF SEQUENCES: 392

;; CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: 633 West Fifth Street

STREET: Suite 4700

CITY: Los Angeles

STATE: California

COUNTRY: U.S.A.

ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

MEDIUM TYPE: storage

COMPUTER: IBM Compatible

OPERATING SYSTEM: IBM P.C. DOS 5.0

SOFTWARE: FastSeq Version 1.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/311,760A

FILING DATE: September 23, 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard

REGISTRATION NUMBER: 32,327

REFERENCE/DOCKET NUMBER: 208/155

TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440

TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 197:

SEQUENCE CHARACTERISTICS:

LENGTH: 15 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-311-760A-197

Query Match 1.4%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 34;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 703 ATTGTATCTTTT 716
Db 15 ATTGGATGTTTT 2

RESULT 48

US-08-363-240A-144/c
; Sequence 144, Application US/08363240A
; Patent No. 5705388

;; GENERAL INFORMATION:

;; APPLICANT: Couture, Larry

;; APPLICANT: McSwiggen, James

;; APPLICANT: Bisgaier, Charles

;; APPLICANT: Pape, Michael

;; TITLE OF INVENTION: METHOD AND REAGENT FOR

;; TITLE OF INVENTION: PREVENTION, INHIBITION OF

;; TITLE OF INVENTION: PROGRESSION AND REGRESSION

;; TITLE OF INVENTION: OF VASCULAR DISEASES

;; NUMBER OF SEQUENCES: 1243

;; CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: 633 West Fifth Street

STREET: Suite 4700

CITY: Los Angeles

STATE: California

COUNTRY: U.S.A.

ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

MEDIUM TYPE: storage

COMPUTER: IBM Compatible

OPERATING SYSTEM: IBM P.C. DOS 5.0

SOFTWARE: Word Perfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/363,240A

FILING DATE: December 23, 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard

REGISTRATION NUMBER: 32,327

REFERENCE/DOCKET NUMBER: 210/096

TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440

TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 144:

SEQUENCE CHARACTERISTICS:

LENGTH: 15 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-363-240A-144

Query Match 1.4%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 34;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 693 CACTTGAAGATTT 706
Db 15 CTCCTGAAGATTT 2

RESULT 49

US-08-363-240A-145/c
; Sequence 145, Application US/08363240A
; Patent No. 5705388

;; GENERAL INFORMATION:

;; APPLICANT: Couture, Larry

;; APPLICANT: McSwiggen, James

;; APPLICANT: Bisgaier, Charles

;; APPLICANT: Pape, Michael

;; TITLE OF INVENTION: METHOD AND REAGENT FOR
;; TITLE OF INVENTION: PREVENTION, INHIBITION OF
;; TITLE OF INVENTION: PROGRESSION AND REGRESSION
;; TITLE OF INVENTION: OF VASCULAR DISEASES
;; NUMBER OF SEQUENCES: 1243
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Lyon & Lyon
;; STREET: 633 West Fifth Street
;; STREET: Suite 4700
;; CITY: Los Angeles
;; STATE: California
;; COUNTRY: U.S.A.
;; ZIP: 90071
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;; MEDIUM TYPE: storage
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: IBM P.C. DOS 5.0
;; SOFTWARE: Word Perfect 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/363,240A
;; FILING DATE: December 23, 1994
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Warburg, Richard
;; REGISTRATION NUMBER: 32,327
;; REFERENCE/DOCKET NUMBER: 210/096
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (213) 489-1600
;; TELEFAX: (213) 955-0440
;; TELEX: 67-3510
;; INFORMATION FOR SEQ ID NO: 145:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 15 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;;
;; US-08-363-240A-145

Query Match 1.4%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 34;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 693 CACTTGGAGATT 706
Db 14 CTCTTGGAGATT 1

RESULT 50
US-08-774-310-197/c
; Sequence 197, Application US/08774310
; Patent No. 5877022
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Daniel T.
; APPLICANT: McSwiggen, James
; APPLICANT: Newton, Roger S.
; APPLICANT: Ramharack, Randy
; TITLE OF INVENTION: RIBOZYME TREATMENT OF DISEASES
; TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS OF
; TITLE OF INVENTION: PLASMA LIPOPROTEIN (a) [LP(a)] BY
; TITLE OF INVENTION: INHIBITING APOLIPOPROTEIN
; NUMBER OF SEQUENCES: 392
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071

;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;; MEDIUM TYPE: storage
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: IBM P.C. DOS 5.0
;; SOFTWARE: FastSEQ Version 1.5
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/774,310
;; FILING DATE: December 23, 1996
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/311,760
;; FILING DATE: September 23, 1994
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Warburg, Richard
;; REGISTRATION NUMBER: 32,327
;; REFERENCE/DOCKET NUMBER: 223/229
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (213) 489-1600
;; TELEFAX: (213) 955-0440
;; TELEX: 67-3510
;; INFORMATION FOR SEQ ID NO: 197:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 15 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;;
;; US-08-774-310-197

Query Match 1.4%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 34;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 703 ATTGTATAGTTT 716
Db 15 ATTGTATAGTTT 2

RESULT 51
US-08-319-492B-148
; Sequence 148, Application US/08319492B
; Patent No. 5616488
; GENERAL INFORMATION:
; APPLICANT: Sullivan, Sean M.
; APPLICANT: Draper, Kenneth G.
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan T.
; TITLE OF INVENTION: RIBOZYME TREATMENT OF DISEASES
; TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS
; TITLE OF INVENTION: OF IL-5
; NUMBER OF SEQUENCES: 751
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/319,492B
; FILING DATE: October 7, 1994
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below:
; APPLICATION NUMBER: 08/008,895
; FILING DATE: January 19, 1993
; APPLICATION NUMBER: 07/989,849

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;
; FILING DATE: December 7, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/276
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-319-492B-148

Query Match 1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 58.3%; Pred. No. 37;
Matches 7; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 730 AAAATGCTGT 741
Db 1 AAAAGUCUGUU 12

RESULT 52
US-08-363-240A-143/c
; Sequence 143, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,240A
; FILING DATE: December 23, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 143:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
;
; FILING DATE: December 7, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/276
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-319-492B-148

Query Match 1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 58.3%; Pred. No. 37;
Matches 7; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 730 AAAATGCTGT 741
Db 1 AAAAGUCUGUU 12

RESULT 52
US-08-363-240A-143/c
; Sequence 143, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,240A
; FILING DATE: December 23, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 143:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-363-240A-143

Query Match 1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 37;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 695 CTTGGAAGATT 706
Db 15 CTTGGAAGATT 4

RESULT 53
US-08-635-309-24/c
; Sequence 24, Application US/08635309
; Patent No. 5709997
; GENERAL INFORMATION:
; APPLICANT: Ronald L. Marshall
; APPLICANT: Cynthia Jou
; APPLICANT: John N. Simons
; APPLICANT: Thomas P. Leary
; APPLICANT: A. Scott Muerhoff
; APPLICANT: Suresh M. Desai
; APPLICANT: Isa K. Mushahwar
; TITLE OF INVENTION: NUCLEIC ACID DETECTION OF HEPATITIS GB VIRUS
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release 1.0, Version 1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/635,309
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Priscilla E. Porembski
; REGISTRATION NUMBER: 33,207
; REFERENCE/DOCKET NUMBER: 5792.US.01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708/937-0378
; TELEFAX: 708/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: synthetic DNA
US-08-635-309-24

Query Match 1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 37;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 90 TGAAGGCGCAG 101
Db 13 TGAAGGCGCAG 2

RESULT 54
US-08-585-684B-2103/c
; Sequence 2103, Application US/08585684B
; Patent No. 5877021
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION:
; NUMBER OF SEQUENCES:
; CORRESPONDENCE ADDRESS:
; ADDRESSEE:
; STREET:
; CITY:
; STATE:
; COUNTRY:
; ZIP:
; COMPUTER READABLE FORM:
; MEDIUM TYPE:
; COMPUTER:
; OPERATING SYSTEM:
; SOFTWARE:
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME:
; REGISTRATION NUMBER:
; REFERENCE/DOCKET NUMBER:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE:
; TELEFAX:
; TELEX:
; INFORMATION FOR SEQ ID NO:
; SEQUENCE CHARACTERISTICS:
; LENGTH:
; TYPE:
; STRANDEDNESS:
; TOPOLOGY:
; MOLECULE TYPE:
; INFORMATION FOR SEQ ID NO:
; SEQUENCE CHARACTERISTICS:
; LENGTH:
; TYPE:
; STRANDEDNESS:
; TOPOLOGY:
; MOLECULE TYPE:
```


APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwiggen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
INDUCTION OF GRAFT TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/585,684B
FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/000,951
FILING DATE: July 7, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 2103:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-585-684B-2103

Query Match 1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 37;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 431 AAAGCAGATGAC 442
DB 14 AAAGCAGATGAC 3

RESULT 55
US-09-038-073-2103/c
Sequence 2103, Application US/09038073
Patent No. 6194150
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwiggen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
INDUCTION OF GRAFT TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/038,073
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/585,684
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 2103:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-038-073-2103

Query Match 1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 37;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 431 AAAGCAGATGAC 442
DB 14 AAAGCAGATGAC 3

Search completed: April 14, 2005, 16:47:12
Job time : 0.001 secs

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Query Match	Score 46.4;	DB 1;	Length 48;
Best Local Similarity	75.0%;	Pred. No. 1;	
Matches 36;	Conservative 11;	Mismatches 1;	Indels 0
QY	299	GAGAGGCATGTTGGAGACTTGGGCCAATGTGACTGCTGACAAAGATGCT	346
Dh	1	GAGAGGCAAGUUGAGACATUUGGCGAUGUGACUUGGACAAAGUUGU	48

RESULT 6
US-10-700-816-8
; Sequence 8, Application US/10700816
; Publication No. US20040192629A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Zuoshang

```

; FILE REFERENCE: 001-058
; CURRENT APPLICATION NUMBER: US/10/700,816
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: 60/423,507
; PRIOR FILING DATE: 2002-11-04
; PRIOR APPLICATION NUMBER: 60/488,283
; PRIOR FILING DATE: 2003-07-18
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-700-816-8

```

RESULT 7
US-10-301-516-32
; Sequence 32, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG

```

, TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING E
,
, TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING E
,
, FILE REFERENCE: HMV-084.01
,
, CURRENT APPLICATION NUMBER: US/10/301,516
,
, CURRENT FILING DATE: 2002-11-21
,
, PRIOR APPLICATION NUMBER: 60/366,478
,
, PRIOR FILING DATE: 2002-03-21
,
, NUMBER OF SEQ ID NOS: 39
,
, SOFTWARE: PatentIn Ver. 2.1
,
, SEQ ID NO 32
,
, LENGTH: 35

```

; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: wild-type sod1
US-10-301-516-32

Query Match 4.0%; Score 35; DB 1; Length 35;
Best Local Similarity 100.0%; Pred. No. 7.2;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 329 ACTGCTGACAAAGATGTTGGCCGATGTCTCTAT 363
Db 1 ACTGCTGACAAAGATGTTGGCCGATGTCTCTAT 35

RESULT 8
US-10-700-816-15
; Sequence 15, Application US/10700816
; Publication No. US20040192629A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Zuoshang
; TITLE OF INVENTION: Allele-Specific RNA Interference
; FILE REFERENCE: UMY-038
; CURRENT APPLICATION NUMBER: US/10/700,816
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: 60/423,507
; PRIOR FILING DATE: 2002-11-04
; PRIOR APPLICATION NUMBER: 60/488,283
; PRIOR FILING DATE: 2003-07-18
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 35
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-700-816-15

Query Match 4.0%; Score 35; DB 1; Length 35;
Best Local Similarity 100.0%; Pred. No. 7.2;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 329 ACTGCTGACAAAGATGTTGGCCGATGTCTCTAT 363
Db 1 ACTGCTGACAAAGATGTTGGCCGATGTCTCTAT 35

RESULT 9
US-09-899-807-1/c
; Sequence 1, Application US/09899807
; Patent No. US20020106348A1
; GENERAL INFORMATION:
; APPLICANT: HUANG, PENG
; APPLICANT: PLUNKETT, WILLIAM
; APPLICANT: FENG, LI
; TITLE OF INVENTION: CANCER THERAPEUTICS INVOLVING THE ADMINISTRATION OF
; TITLE OF INVENTION: 2-METHOXYESTRADIOL AND AN AGENT THAT INCREASES
; TITLE OF INVENTION: INTRACELLULAR SUPEROXIDE ANION
; FILE REFERENCE: UTSC:618US
; CURRENT APPLICATION NUMBER: US/09/899,807
; CURRENT FILING DATE: 2001-07-05
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-899-807-1

Query Match 3.1%; Score 27; DB 1; Length 27;

Best Local Similarity 100.0%; Pred. No. 27;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 61 AGTTATGGCGACGAGCGCGTGTGCGT 87
Db 27 AGTTATGGCGACGAGCGCGTGTGCGT 1

RESULT 10
US-09-899-807-3
; Sequence 3, Application US/09899807
; Patent No. US20020106348A1
; GENERAL INFORMATION:
; APPLICANT: HUANG, PENG
; APPLICANT: PLUNKETT, WILLIAM
; APPLICANT: FENG, LI
; TITLE OF INVENTION: CANCER THERAPEUTICS INVOLVING THE ADMINISTRATION OF
; TITLE OF INVENTION: 2-METHOXYESTRADIOL AND AN AGENT THAT INCREASES
; TITLE OF INVENTION: INTRACELLULAR SUPEROXIDE ANION
; FILE REFERENCE: UTSC:618US
; CURRENT APPLICATION NUMBER: US/09/899,807
; CURRENT FILING DATE: 2001-07-05
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-899-807-3

Query Match 2.6%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 71 ACGAAGCGCGTGTGCGTGTGAA 93
Db 1 ACGAAGCGCGTGTGCGTGTGAA 23

RESULT 11
US-09-899-807-4/c
; Sequence 4, Application US/09899807
; Patent No. US20020106348A1
; GENERAL INFORMATION:
; APPLICANT: HUANG, PENG
; APPLICANT: PLUNKETT, WILLIAM
; APPLICANT: FENG, LI
; TITLE OF INVENTION: CANCER THERAPEUTICS INVOLVING THE ADMINISTRATION OF
; TITLE OF INVENTION: 2-METHOXYESTRADIOL AND AN AGENT THAT INCREASES
; TITLE OF INVENTION: INTRACELLULAR SUPEROXIDE ANION
; FILE REFERENCE: UTSC:618US
; CURRENT APPLICATION NUMBER: US/09/899,807
; CURRENT FILING DATE: 2001-07-05
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-899-807-4

Query Match 2.6%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 486 CTGGAAGTCGTTGGCTTGGT 508
|||||

Db 23 CTGGAAGTCGTTGGCTTGCGT 1

RESULT 12

US-10-719-900-61538
; Sequence 61538, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:

; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

; FILE REFERENCE: 3528.1

; CURRENT APPLICATION NUMBER: US/10/719,900

; CURRENT FILING DATE: 2003-11-20

; PRIOR APPLICATION NUMBER: 60/427,808

; PRIOR FILING DATE: 2002 11 20

; NUMBER OF SEQ ID NOS: 982914

; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

; SEQ ID NO 61538

; LENGTH: 25

; TYPE: DNA

; ORGANISM: Mus musculus

US-10-719-900-61538

Query Match 2.6%; Score 22.4; DB 1; Length 25;

Best Local Similarity 95.8%; Pred. No. 60;

Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 232 AGGCTGTACCAGTGCAGGTCCTCA 255

Db 2 AGGCTGTACCAGTGCAGGACCTCA 25

RESULT 13

US-10-333-578-13/c
; Sequence 13, Application US/10333578
; Publication No. US20040058856A1
; GENERAL INFORMATION:

; APPLICANT: CHOI, Soo-Young

; APPLICANT: HAN, Kyu-Hyung

; APPLICANT: PARK, Jinseu

; APPLICANT: KWON, Hyeok-Yil

; APPLICANT: KANG, Jung-Hoon

; APPLICANT: KANG, Tae-Chun

; APPLICANT: LEE, Kil-Soo

; APPLICANT: WON, Moo-Ho

; TITLE OF INVENTION: Oligolysine transducing domain, oligolysine-cargo molecule

; FILE REFERENCE: wjtj-shk-olygok-us

; CURRENT APPLICATION NUMBER: US/10/333,578

; CURRENT FILING DATE: 2003-01-24

; PRIOR APPLICATION NUMBER: KR10-2000-43022

; PRIOR FILING DATE: 2000-07-26

; PRIOR APPLICATION NUMBER: KR10-2001-6178

; PRIOR FILING DATE: 2001-02-08

; PRIOR APPLICATION NUMBER: KR10-2001-10981

; PRIOR FILING DATE: 2001-03-03

; PRIOR APPLICATION NUMBER: KR10-2001-14147

; PRIOR FILING DATE: 2001-03-19

; PRIOR APPLICATION NUMBER: PCT/KR01/00835

; PRIOR FILING DATE: 2001-11-26

; NUMBER OF SEQ ID NOS: 13

; SOFTWARE: Kopatentin 1.71

; SEQ ID NO 13

; LENGTH: 27

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-333-578-13

Query Match 2.5%; Score 22.2; DB 1; Length 27;

Best Local Similarity 88.9%; Pred. No. 66;

Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 509 GTAATTGGATCGCCCAATAAATTC 535

Db 27 GTAATTGGATCGCCCAATAAAGATCC 1

RESULT 14

US-10-333-578-12

; Sequence 12, Application US/10333578

; Publication No. US20040058856A1

; GENERAL INFORMATION:

; APPLICANT: CHOI, Soo-Young

; APPLICANT: HAN, Kyu-Hyung

; APPLICANT: PARK, Jinseu

; APPLICANT: KWON, Hyeok-Yil

; APPLICANT: KANG, Jung-Hoon

; APPLICANT: KANG, Tae-Chun

; APPLICANT: LEE, Kil-Soo

; APPLICANT: WON, Moo-Ho

; TITLE OF INVENTION: Oligolysine transducing domain, oligolysine-cargo molecule

; FILE REFERENCE: wjtj-shk-olygok-us

; CURRENT APPLICATION NUMBER: US/10/333,578

; CURRENT FILING DATE: 2003-01-24

; PRIOR APPLICATION NUMBER: KR10-2000-43022

; PRIOR FILING DATE: 2000-07-26

; PRIOR APPLICATION NUMBER: KR10-2001-6178

; PRIOR FILING DATE: 2001-02-08

; PRIOR APPLICATION NUMBER: KR10-2001-10981

; PRIOR FILING DATE: 2001-03-03

; PRIOR APPLICATION NUMBER: KR10-2001-14147

; PRIOR FILING DATE: 2001-03-19

; PRIOR APPLICATION NUMBER: PCT/KR01/00835

; PRIOR FILING DATE: 2001-11-26

; NUMBER OF SEQ ID NOS: 13

; SOFTWARE: Kopatentin 1.71

; SEQ ID NO 12

; LENGTH: 27

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-333-578-12

Query Match 2.5%; Score 22; DB 1; Length 27;

Best Local Similarity 100.0%; Pred. No. 68;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 67 GCGGACGAGGCGGTGTGCGTG 88

Db 6 GCGGACGAGGCGGTGTGCGTG 27

RESULT 15

US-10-109-349A-52

; Sequence 52, Application US/10109349A

; Publication No. US20030186246A1

; GENERAL INFORMATION:

; APPLICANT: Medical College of Ohio

; APPLICANT: Willey, James C.

; APPLICANT: Crawford, Erin L.

; TITLE OF INVENTION: MULTIPLEX STANDARDIZED REVERSE TRANSCRIPTASE-POLYMERASE CHAIN REACT

; FILE REFERENCE: 01154/2001-203

; CURRENT APPLICATION NUMBER: US/10/109,349A

; CURRENT FILING DATE: 2002-06-12

; NUMBER OF SEQ ID NOS: 282

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 52

; LENGTH: 21

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-109-349A-52

Query Match 2.4%; Score 21; DB 1; Length 21;

Best Local Similarity 100.0%; Pred. No. 68;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 TGAAGGTGGGGAACATTA 173
Db 1 TGAAGGTGGGGAACATTA 21

RESULT 16
US-10-109-349A-53/c
; Sequence 53, Application US/10109349A
; Publication No. US20030186246A1
; GENERAL INFORMATION:
; APPLICANT: Medical College of Ohio
; APPLICANT: Willey, James C.
; APPLICANT: Crawford, Erin L.
; TITLE OF INVENTION: MULTIPLEX STANDARDIZED REVERSE TRANSCRIPTASE-POLYMERASE CHAIN REACTION
; TITLE OF INVENTION: METHOD FOR ASSESSMENT OF GENE EXPRESSION IN SMALL BIOLOGICAL SAMPLES
; FILE REFERENCE: 01154/2001-203
; CURRENT APPLICATION NUMBER: US/10/109,349A
; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 282
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-109-349A-53

Query Match 2.4%; Score 21; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 492 GTCGTTTGGCTGTGCTGTAA 512
Db 21 GTCGTTTGGCTGTGCTGTAA 1

RESULT 17
US-10-633-843-6
; Sequence 6, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 6
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Probe
US-10-633-843-6

Query Match 2.4%; Score 21; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 ACGAGCGCGTGTGCGTGCTG 91
Db 1 ACGAGCGCGTGTGCGTGCTG 21

RESULT 18
US-10-672-866-6
; Sequence 6, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett

; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 6
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Probe
US-10-672-866-6

Query Match 2.4%; Score 21; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 ACGAGCGCGTGTGCGTGCTG 91
Db 1 ACGAGCGCGTGTGCGTGCTG 21

RESULT 19
US-10-719-900-826010
; Sequence 826010, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 826010
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-826010

Query Match 2.4%; Score 21; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 77;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 373 TGTGATCTCACTCTCAGGAGA 393
Db 4 TGTGATCTCACTCTCAGGAGA 24

RESULT 20
US-10-719-900-61537
; Sequence 61537, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 61537

```
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-61537

Query Match      2.4%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 80;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 232 AGCGTGACAGTCAGGTCCTCA 255
      |||||
Db 2 AGCGTGACAGTCAGGTCCTCA 25

RESULT 21
US-10-719-900-456063
; Sequence 456063, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 456063
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-456063

Query Match      2.3%; Score 20.4; DB 1; Length 25;
Best Local Similarity 95.5%; Pred. No. 86;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 314 GACCTGGGCAATGTGACTGCTG 335
      |||||
Db 1 GACCTGGGCAATGTGACTGCTG 22

RESULT 22
US-10-719-900-284833
; Sequence 284833, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 284833
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-284833

Query Match      2.3%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 89;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 512 ATTGGATCGCCCAATAAACATCC 536
      |||||
Db 1 ATTGGATTCGCGCAGTAACATCC 25

RESULT 23
US-10-719-900-458198
; Sequence 458198, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 458198
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-458198

Query Match      2.3%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 89;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 341 GATGGTGTGGCCGATGTGTCTATTG 365
      |||||
Db 1 GACGGTGTGGCCCAATGTGTCCATTG 25

RESULT 24
US-10-719-900-458199
; Sequence 458199, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 458199
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-458199

Query Match      2.3%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 89;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 341 GATGGTGTGGCCGATGTGTCTATTG 365
      |||||
Db 1 GACGGTGTGGCCCAATGTGTCCATTG 25

RESULT 25
US-10-719-900-889725
; Sequence 889725, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 889725
; LENGTH: 25
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; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-889725

Query Match      2.3%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 89;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy   . 514 TGGGATCGCCCAATAAACATTCCCT 538
Db   ||||| ||||| ||||| ||||| |||||
     1 TGGGATTGGCGCACTAAACATTCCCT 25

RESULT 26
US-10-719-900-889726
; Sequence 889726, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 889726
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-889726

Query Match      2.3%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 89;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy   . 514 TGGGATCGCCCAATAAACATTCCCT 538
Db   ||||| ||||| ||||| ||||| |||||
     1 TGGGATTGGCGCACTAAACATTCCCT 25

RESULT 27
US-10-719-900-893797
; Sequence 893797, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 893797
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-893797

Query Match      2.3%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 89;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy   . 420 TGGTCCCATGA AAAAGCAGATGACTT 444
Db   ||||| ||||| ||||| ||||| |||||
     1 TGGTCCCATGAGAAAACAAGATGACTT 25

RESULT 28
US-10-719-900-967669/c
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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Primer
US-10-633-843-5

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 108 TGCAGGGCATCATCAATTTC 127
Db 20 TGCAGGGCATCATCAATTTC 1

RESULT 31
US-10-633-843-13/c
; Sequence 13, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 13
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-13

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 73 GAAGGCCGTGTGCTGCTGA 92
Db 20 GAAGGCCGTGTGCTGCTGA 1

RESULT 32
US-10-633-843-14/c
; Sequence 14, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-14

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 78 CCGTGTGCTGCTGAAGGC 97
Db 20 CCGTGTGCTGCTGAAGGC 1

RESULT 33
US-10-633-843-15/c
; Sequence 15, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 15
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-15

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 81 TGTGCTGCTGAAGCGCAC 100
Db 20 TGTGCTGCTGAAGCGCAC 1

RESULT 34
US-10-633-843-16/c
; Sequence 16, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 16
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-16

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 GGTTCGGTGCAGTCCTCG 33
Db 20 GGTTCGGTGCAGTCCTCG 1

RESULT 35
US-10-633-843-17/c
; Sequence 17, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett

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; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-17

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      19  CCGTTGCAGTCTCGGAACC 38
        |||||
Db       20  CCGTTGCAGTCTCGGAACC 1

RESULT 36
US-10-633-843-18/c
; Sequence 18, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-18

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      23  TGCAGTCTCGGAACCAGGA 42
        |||||
Db       20  TGCAGTCTCGGAACCAGGA 1

RESULT 37
US-10-633-843-19/c
; Sequence 19, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
```

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-19

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      27  GTCCTCGGAACCAAGACCTC 46
        |||||
Db       20  GTCCTCGGAACCAAGACCTC 1

RESULT 38
US-10-633-843-20/c
; Sequence 20, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 20
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-20

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      38  CAGGACCTCGCGTGGCCTA 57
        |||||
Db       20  CAGGACCTCGCGTGGCCTA 1

RESULT 39
US-10-633-843-21/c
; Sequence 21, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 21
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-21

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      53  GCCTAGCAGTTATGGCGAC 72
        |||||
```


; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-26

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 144 ATGACCACTGAGGTGTGG 163
|||||
DB 20 ATGACCACTGAGGTGTGG 1

RESULT 45

US-10-633-843-27/c
; Sequence 27, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 27
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-27

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 161 TGGGGAAGCATTAAAGGACT 180
|||||
DB 20 TGGGGAAGCATTAAAGGACT 1

RESULT 46

US-10-633-843-28/c
; Sequence 28, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 28
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-28

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 173 AAAGGACTGACTGAAGCCT 192
|||||
DB 20 AAAGGACTGACTGAAGCCT 1

RESULT 47

US-10-633-843-29/c
; Sequence 29, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 29
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-29

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 AAGGACTGACTGAAGCCTG 193
|||||
DB 20 AAGGACTGACTGAAGCCTG 1

RESULT 48

US-10-633-843-30/c
; Sequence 30, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 30
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-30

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 205 TGTTCATGAGTTGGAGATA 224
|||||
DB 20 TGTTCATGAGTTGGAGATA 1

RESULT 49

US-10-633-843-31/c
; Sequence 31, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843

; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-633-843-31

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 GAGTTGGAGATAACAGC 231
Db 20 GAGTTGGAGATAACAGC 1

RESULT 50
US-10-633-843-32/c
; Sequence 32, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 32
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-633-843-32

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 221 GATAATACAGCAGCTGTAC 240
Db 20 GATAATACAGCAGCTGTAC 1

RESULT 51
US-10-633-843-33/c
; Sequence 33, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-633-843-33

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 304 GCATGTTGGAGACTTGGGCA 323
Db 20 GCATGTTGGAGACTTGGGCA 1

RESULT 52
US-10-633-843-34/c
; Sequence 34, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-633-843-34

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 309 TTGGAGACTTGGCAATGTG 328
Db 20 TTGGAGACTTGGCAATGTG 1

RESULT 53
US-10-633-843-35/c
; Sequence 35, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-633-843-35

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 335 GACAAAGATGTTGTGCCGA 354
Db 20 GACAAAGATGTTGTGCCGA 1

RESULT 54


```
US-10-633-843-36/c
; Sequence 36, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-36

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 337 CAAAGATGGTGGCCGATG 356
Db 20 CAAAGATGGTGGCCGATG 1

RESULT 55
US-10-633-843-37/c
; Sequence 37, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-37

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 AGATGGTGGCCGATG 359
Db 20 AGATGGTGGCCGATG 1

RESULT 56
US-10-633-843-38/c
; Sequence 38, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-38
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US-10-633-843-39/c
; Sequence 39, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-39

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 343 TGGTGGCGGATGTCCTA 362
Db 20 TGGTGGCGGATGTCCTA 1

RESULT 57
US-10-633-843-40/c
; Sequence 40, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-40

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 404 ATTGGCGGCACACTGGTGGT 423
Db 20 ATTGGCGGCACACTGGTGGT 1

RESULT 58
US-10-633-843-40/c
; Sequence 40, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-40

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 409 CCGCACACTGGTGGTCCATG 428
Db 20 CCGCACACTGGTGGTCCATG 1

RESULT 59
US-10-633-843-41/c
; Sequence 41, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 41
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-41

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 410 CCGCACACTGGTGGTCCATGA 429
Db 20 CCGCACACTGGTGGTCCATGA 1

RESULT 60
US-10-633-843-42/c
; Sequence 42, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-42

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 504 GTGGTGTAAATGGGATCGCC 523
Db 20 GTGGTGTAAATGGGATCGCC 1

RESULT 61
US-10-633-843-43/c
; Sequence 43, Application US/10633843

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; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-43

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 517 GATCGCCCAATAAACATTC 536
Db 20 GATCGCCCAATAAACATTC 1

RESULT 62
US-10-633-843-44/c
; Sequence 44, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-44

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 535 CCCTGGATGTAGTCTGAGG 554
Db 20 CCCTGGATGTAGTCTGAGG 1

RESULT 63
US-10-633-843-45/c
; Sequence 45, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90

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; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-45

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACATCATCTGTTATC 575
DB 20 CCCTTAACATCATCTGTTATC 1

RESULT 64
US-10-633-843-46/c
; Sequence 46, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 46
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-46

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 620 ATCTTAAAGTGAATGTG 639
DB 20 ATCTTAAAGTGAATGTG 1

RESULT 65
US-10-633-843-47/c
; Sequence 47, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 47
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-47

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 625 AAAAGTGTAAATGTGTGACT 644
DB 20 AAAAGTGTAAATGTGTGACT 1

RESULT 66
US-10-633-843-48/c
; Sequence 48, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 48
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-48

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 658 TTATAAGTACCTGTAGTGAG 677
DB 20 TTATAAGTACCTGTAGTGAG 1

RESULT 67
US-10-633-843-49/c
; Sequence 49, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-49

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 667 CCTGTAGTGAGAACTGATT 686
DB 20 CCTGTAGTGAGAACTGATT 1

RESULT 68
US-10-633-843-50/c
; Sequence 50, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:

```

; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 50
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-50

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 670 GTAGTGAGAACTGATTAT 689
Db 20 GTAGTGAGAACTGATTAT 1

RESULT 69
US-10-633-843-51/c
; Sequence 51, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-51

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 671 TAGTGAGAACTGATTATG 690
Db 20 TAGTGAGAACTGATTATG 1

RESULT 70
US-10-633-843-52/c
; Sequence 52, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 52
; LENGTH: 20

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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-52

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 686 TTATGATCACTTGAAGATT 705
Db 20 TTATGATCACTTGAAGATT 1

RESULT 71
US-10-633-843-53/c
; Sequence 53, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-53

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 691 ATCACTTGAAGATTGTAT 710
Db 20 ATCACTTGAAGATTGTAT 1

RESULT 72
US-10-633-843-54/c
; Sequence 54, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-54

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 707 GTATAGTTTTATAAACTCA 726

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```
Db      20 GTATAGTTTATAAACTCA 1
|||||
RESULT 73
US-10-633-843-55/c
; Sequence 55, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 55
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-55
Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      710 TAGTTTATAAACTCAGTT 729
|||||
Db      20 TAGTTTATAAACTCAGTT 1
|||||
RESULT 74
US-10-633-843-56/c
; Sequence 56, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 56
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-56
Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      721 AACTCAGTTAAATGTCGT 740
|||||
Db      20 AACTCAGTTAAATGTCGT 1
|||||
RESULT 75
US-10-633-843-57/c
; Sequence 57, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-57
Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      727 GTTAAATGCTGTTTCAAT 746
|||||
Db      20 GTTAAATGCTGTTTCAAT 1
|||||
RESULT 76
US-10-633-843-58/c
; Sequence 58, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 58
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-58
Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      729 TAAATGCTGTTTCAATGA 748
|||||
Db      20 TAAATGCTGTTTCAATGA 1
|||||
RESULT 77
US-10-633-843-59/c
; Sequence 59, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 59
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-59
```

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; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-59

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 736 TCTGTTTCAATGACCTGTAT 755
DB 20 TCTGTTTCAATGACCTGTAT 1

RESULT 78
US-10-633-843-60/c
; Sequence 60, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 60
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-60

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 761 CAGACTTAATCAGATGG 780
DB 20 CAGACTTAATCAGATGG 1

RESULT 79
US-10-633-843-61/c
; Sequence 61, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 61
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-61

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 769 AATCAGATGGGTATATAA 788
DB 20 AATCAGATGGGTATATAA 1
```

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RESULT 80
US-10-633-843-62/c
; Sequence 62, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 62
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-62

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 771 TCACAGATGGGTATATAA 790
DB 20 TCACAGATGGGTATATAA 1

RESULT 81
US-10-633-843-63/c
; Sequence 63, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 63
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-63

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 787 AACTGTGCAAAATTTCTTTG 806
DB 20 AACTGTGCAAAATTTCTTTG 1

RESULT 82
US-10-633-843-64/c
; Sequence 64, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
```

OTHER INFORMATION: Antisense Oligonucleotide

20 AGCCTGTGAATAAAAACCCCT 1

APPLICANT: Kenneth Dobie

Fri Apr 15 06:26:36 2005

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RESULT 87
US-10-633-843-69/c
; Sequence 69, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 69
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-69

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 818 TGTGAATAAAACCTGTAT 837
Db 20 TGTGAATAAAACCTGTAT 1

RESULT 88
US-10-633-843-70/c
; Sequence 70, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 70
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-70

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 820 TGAATAAAACCTGTATGG 839
Db 20 TGAATAAAACCTGTATGG 1

RESULT 89
US-10-633-843-71/c
; Sequence 71, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04

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; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 71
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-71

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 825 AAAAACCTGTATGGCACTT 844
Db 20 AAAAACCTGTATGGCACTT 1

RESULT 90
US-10-633-843-72/c
; Sequence 72, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 72
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-72

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 829 ACCCTGTATGGCACTTATTA 848
Db 20 ACCCTGTATGGCACTTATTA 1

RESULT 91
US-10-633-843-73/c
; Sequence 73, Application US/10633843
; Publication No. US20040091919A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 73
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-73

```


Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 832 CTGTATGGCACTTATTATGA 851
|||||
DB 20 CTGTATGGCACTTATTATGA 1

RESULT 92

US-10-633-843-74/c
; Sequence 74, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 74
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-74

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 833 TGTATGGCACTTATTATGAG 852
|||||
DB 20 TGTATGGCACTTATTATGAG 1

RESULT 93

US-10-633-843-75/c
; Sequence 75, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 75
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-75

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 835 TATGGCACTTATTATGAGGC 854
|||||
DB 20 TATGGCACTTATTATGAGGC 1

RESULT 94

US-10-633-843-76/c

; Sequence 76, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:

; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 76
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-76

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 843 TTATTATGAGCTATTAAAA 862
|||||
DB 20 TTATTATGAGCTATTAAAA 1

RESULT 95

US-10-633-843-77/c
; Sequence 77, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 77
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-77

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 849 TGAGGCTATTAAGAATCC 868
|||||
DB 20 TGAGGCTATTAAGAATCC 1

RESULT 96

US-10-672-866-4
; Sequence 4, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26

; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Primer
US-10-672-866-4

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 49 CGTGGCTAGCGAGTTATGG 68
DB 1 CGTGGCTAGCGAGTTATGG 20

RESULT 97
US-10-672-866-5/c
; Sequence 5, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Primer
US-10-672-866-5

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 108 TGCAGGGCATCATCAATTTC 127
DB 20 TGCAGGGCATCATCAATTTC 1

RESULT 98
US-10-672-866-13/c
; Sequence 13, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360

; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 13
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-13

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 73 GAAGGCCGTGTGCGTGTGA 92
DB 20 GAAGGCCGTGTGCGTGTGA 1

RESULT 99
US-10-672-866-14/c
; Sequence 14, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-14

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 78 CCGTGTGCGTGTGAAGGC 97
DB 20 CCGTGTGCGTGTGAAGGC 1

RESULT 100
US-10-672-866-15/c
; Sequence 15, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 15

```
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-15

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 81 TGTGCGTGCTGAAGGCGAC 100
    |||||
Db 20 TGTGCGTGCTGAAGGCGAC 1

RESULT 101
US-10-672-866-16/c
; Sequence 16, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 16
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-16

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 14 GGTTCGTTGCAGTCCTCG 33
    |||||
Db 20 GGTTCGTTGCAGTCCTCG 1

RESULT 102
US-10-672-866-17/c
; Sequence 17, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
```

```
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-17

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 19 CCGTTCAGTCCTCGGAACC 38
    |||||
Db 20 CCGTTCAGTCCTCGGAACC 1

RESULT 103
US-10-672-866-18/c
; Sequence 18, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-18

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 23 TGCAGTCCTCGGAACCAGGA 42
    |||||
Db 20 TGCAGTCCTCGGAACCAGGA 1

RESULT 104
US-10-672-866-19/c
; Sequence 19, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-19
```

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 27 GTCCTCGGACACGAGCCTC 46
 DB 20 GTCCTCGGACACGAGCCTC 1

RESULT 105
 US-10-672-866-20/c
 ; Sequence 20, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 20
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-20

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 38 CAGGACCTCGCGTGGCCTA 57
 DB 20 CAGGACCTCGCGTGGCCTA 1

RESULT 106
 US-10-672-866-21/c
 ; Sequence 21, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 21
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-21

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 53 GCCTAGCGAGTTATGGCGAC 72
 DB 20 GCCTAGCGAGTTATGGCGAC 1

RESULT 107
 US-10-672-866-22/c
 ; Sequence 22, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 22
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-22

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 96 GCGACGGCCAGTCGAGGCG 115
 DB 20 GCGACGGCCAGTCGAGGCG 1

RESULT 108
 US-10-672-866-23/c
 ; Sequence 23, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 23
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-23

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 AGTCAGGCGCATCATCAATT 125

```
Db 20 AGTCAGGGCATCATCAATT 1
|||||
RESULT 109
US-10-672-866-24/c
; Sequence 24, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-24
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 AGGAAGTAAATGGACCAAGTG 154
|||||
Db 20 AGGAAGTAAATGGACCAAGTG 1
|||||

RESULT 110
US-10-672-866-25/c
; Sequence 25, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-25
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 TAATGGACCAAGTGAAGGTGT 161
|||||
Db 20 TAATGGACCAAGTGAAGGTGT 1
|||||
```

```
RESULT 111
US-10-672-866-26/c
; Sequence 26, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 26
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-26
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 144 ATGGACCAAGTGAAGGTGTGG 163
|||||
Db 20 ATGGACCAAGTGAAGGTGTGG 1
|||||

RESULT 112
US-10-672-866-27/c
; Sequence 27, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 27
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-27
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 161 TGGGGAAGCATTAAGGACT 180
|||||
Db 20 TGGGGAAGCATTAAGGACT 1
|||||

RESULT 113
US-10-672-866-28/c
```

; Sequence 28, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 28
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-28

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 173 AAGGACTGACTGAAGGCCT 192
DB 20 AAGGACTGACTGAAGGCCT 1

RESULT 114
US-10-672-866-29/c
; Sequence 29, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 29
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-29

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 AAGGACTGACTGAAGGCCTG 193
DB 20 AAGGACTGACTGAAGGCCTG 1

RESULT 115
US-10-672-866-30/c
; Sequence 30, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 30
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-30

; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 30
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-30

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 205 TGTTTCATGAGTTGGAGATA 224
DB 20 TGTTTCATGAGTTGGAGATA 1

RESULT 116
US-10-672-866-31/c
; Sequence 31, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-31

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 GAGTTTGGAGATAATACAGC 231
DB 20 GAGTTTGGAGATAATACAGC 1

RESULT 117
US-10-672-866-32/c
; Sequence 32, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 32
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-32

```
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 32
; TYPE: DNA
; LENGTH: 20
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-32

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 221 GATAATACACGAGCTGTAC 240
Db 20 GATAATACACGAGCTGTAC 1

RESULT 118
US-10-672-866-33/c
; Sequence 33, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-33

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 304 GCATGTTGGAGACTTGGCCA 323
Db 20 GCATGTTGGAGACTTGGCCA 1

RESULT 119
US-10-672-866-34/c
; Sequence 34, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-34

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 309 TTGGAGACTTGGCAATGTG 328
Db 20 TTGGAGACTTGGCAATGTG 1

RESULT 120
US-10-672-866-35/c
; Sequence 35, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-35

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 335 GACAAAGATGGTGTGCCGA 354
Db 20 GACAAAGATGGTGTGCCGA 1

RESULT 121
US-10-672-866-36/c
; Sequence 36, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
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; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-36

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 337 CAAAGATGGTGGCCGATG 356
DB 20 CAAAGATGGTGGCCGATG 1

RESULT 122
US-10-672-866-37/c
; Sequence 37, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-37

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 AGATGGTGGCCGATGTGT 359
DB 20 AGATGGTGGCCGATGTGT 1

RESULT 123
US-10-672-866-38/c
; Sequence 38, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-38

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; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-38

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 343 TGGTGTGGCCGATGTGCTA 362
DB 20 TGGTGTGGCCGATGTGCTA 1

RESULT 124
US-10-672-866-39/c
; Sequence 39, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-39

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 404 ATTGGCCGCACACTGGTGT 423
DB 20 ATTGGCCGCACACTGGTGT 1

RESULT 125
US-10-672-866-40/c
; Sequence 40, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 40
; LENGTH: 20

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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-40

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 409 CCGCACACTGGTGTCATG 428
Db 20 CCGCACACTGGTGTCATG 1

RESULT 126
US-10-672-866-41/c
; Sequence 41, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 41
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-41

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 410 CCGCACACTGGTGTCATGA 429
Db 20 CCGCACACTGGTGTCATGA 1

RESULT 127
US-10-672-866-42/c
; Sequence 42, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-42
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; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-42

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 504 GTGGTGAATGGGATCGCC 523
Db 20 GTGGTGAATGGGATCGCC 1

RESULT 128
US-10-672-866-43/c
; Sequence 43, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-43

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 517 GATGCCCAATAAACATTCC 536
Db 20 GATGCCCAATAAACATTCC 1

RESULT 129
US-10-672-866-44/c
; Sequence 44, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-44
```

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 535 CCCTGGATGCTCTGAGG 554
 DB 20 CCCTGGATGCTCTGAGG 1

RESULT 130
 US-10-672-866-45/c
 ; Sequence 45, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 45
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-45

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACCTCATCTGTTATC 575
 DB 20 CCCTTAACCTCATCTGTTATC 1

RESULT 131
 US-10-672-866-46/c
 ; Sequence 46, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 46
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-46

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 620 ATCTTAAAGTGAATTTGTG 639
 DB 20 ATCTTAAAGTGAATTTGTG 1

RESULT 132
 US-10-672-866-47/c
 ; Sequence 47, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 47
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-47

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 625 AAAAGTGAATTTGTGACT 644
 DB 20 AAAAGTGAATTTGTGACT 1

RESULT 133
 US-10-672-866-48/c
 ; Sequence 48, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 48
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-48

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 658 TTTTAAAGTACCTCTAGTGAG 677
 DB 20 TTTTAAAGTACCTCTAGTGAG 1

Db 20 TTAAAGTACCTGTAGTGA 1

RESULT 134
US-10-672-866-49/c
; Sequence 49, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-49

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 667 CCTGTAGTGAAGAACTGATT 686
|||||
Db 20 CCTGTAGTGAAGAACTGATT 1

RESULT 135
US-10-672-866-50/c
; Sequence 50, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 50
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-50

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 670 GTACTGAGAACTGATTAT 689
|||||
Db 20 GTACTGAGAACTGATTAT 1

Db 20 TTAAAGTACCTGTAGTGA 1

RESULT 136
US-10-672-866-51/c
; Sequence 51, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-51

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 671 TAGTGAGAACTGATTATG 690
|||||
Db 20 TAGTGAGAACTGATTATG 1

RESULT 137
US-10-672-866-52/c
; Sequence 52, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 52
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-52

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 686 TTATGATCACTTGAAGATT 705
|||||
Db 20 TTATGATCACTTGAAGATT 1

RESULT 138
US-10-672-866-53/c
; Sequence 53, Application US/10672866

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; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-53

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      691 ATCACTTGAAGATTGCTAT 710
Db      20 ATCACTTGAAGATTGCTAT 1

RESULT 139
US-10-672-866-54/c
; Sequence 54, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-54

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      707 GTATAGTTTATAAACTCA 726
Db      20 GTATAGTTTATAAACTCA 1

RESULT 140
US-10-672-866-55/c
; Sequence 55, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett

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; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 55
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-55

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      710 TAGTTTATAAACTCAGTT 729
Db      20 TAGTTTATAAACTCAGTT 1

RESULT 141
US-10-672-866-56/c
; Sequence 56, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 56
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-56

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      721 AACTCAGTTAAATGTCGT 740
Db      20 AACTCAGTTAAATGTCGT 1

RESULT 142
US-10-672-866-57/c
; Sequence 57, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE

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; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-57

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 727 GTTAAATGCTGTTTCAAT 746
Db 20 GTTAAATGCTGTTTCAAT 1

RESULT 143
US-10-672-866-58/c
; Sequence 58, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 58
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-58

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 729 TAAATGCTGTTTCAATGA 748
Db 20 TAAATGCTGTTTCAATGA 1

RESULT 144
US-10-672-866-59/c
; Sequence 59, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 59
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-59

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 736 TCTGTTTCAATGACCTGTAT 755
Db 20 TCTGTTTCAATGACCTGTAT 1

RESULT 145
US-10-672-866-60/c
; Sequence 60, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 60
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-60

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 761 CAGACTTAAATCACAGATGG 780
Db 20 CAGACTTAAATCACAGATGG 1

RESULT 146
US-10-672-866-61/c
; Sequence 61, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
```

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; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 61
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-61

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 769 AATCACAGATGGGTATTAA 788
Db 20 AATCACAGATGGGTATTAA 1

RESULT 147
US-10-672-866-62/c
; Sequence 62, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 62
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-62

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 771 TCACAGATGGGTATTAACT 790
Db 20 TCACAGATGGGTATTAACT 1

RESULT 148
US-10-672-866-63/c
; Sequence 63, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339

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```

; SEQ ID NO 63
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-63

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 787 AACTGTGCAGAAATTTCTTTG 806
Db 20 AACTGTGCAGAAATTTCTTTG 1

RESULT 149
US-10-672-866-64/c
; Sequence 64, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 64
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-64

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 795 AGAATTTCTTTGTCATTCAA 814
Db 20 AGAATTTCTTTGTCATTCAA 1

RESULT 150
US-10-672-866-65/c
; Sequence 65, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 65
; LENGTH: 20
; TYPE: DNA

```

Query Match 2.3%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 79; Mismatches 0; Indels 0; Gaps 0;

QY 818 TGTGAATAAAACCCCTGTAT 837
 Db 20 TGTGAATAAAACCCCTGTAT 1

RESULT 155
 US-10-672-866-70/c
 ; Sequence 70, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 70
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-70

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 820 TGAATAAAACCCCTGTATGG 839
 Db 20 TGAATAAAACCCCTGTATGG 1

RESULT 156
 US-10-672-866-71/c
 ; Sequence 71, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 71
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-71

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 825 AAAAACCCCTGTATGGCACTT 844
 Db 20 AAAAACCCCTGTATGGCACTT 1

RESULT 157
 US-10-672-866-72/c
 ; Sequence 72, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 72
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-72

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 829 ACCCTGTATGGCACTTATTA 848
 Db 20 ACCCTGTATGGCACTTATTA 1

RESULT 158
 US-10-672-866-73/c
 ; Sequence 73, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 73
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-73

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 832 CTGTATGGCACTTATTATGA 851
 Db 20 CTGTATGGCACTTATTATGA 1

RESULT 159

US-10-672-866-74/c
; Sequence 74, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/672,866
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 74
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-74

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 833 TGTATGGCACTTATTATGAG 852
|||||
DB 20 TGTATGGCACTTATTATGAG 1

RESULT 160

US-10-672-866-75/c
; Sequence 75, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/672,866
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 75
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-75

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 835 TATGGCACTTATTATGAGGC 854
|||||
DB 20 TATGGCACTTATTATGAGGC 1

RESULT 161

US-10-672-866-76/c

US-10-672-866-76/c
; Sequence 76, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/672,866
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 76
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-76

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 843 TTATTATGAGGCTATTAAAA 862
|||||
DB 20 TTATTATGAGGCTATTAAAA 1

RESULT 162

US-10-672-866-77/c
; Sequence 77, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/672,866
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 77
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-77

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 849 TGAGGCTATTAAAAAGATCC 868
|||||
DB 20 TGAGGCTATTAAAAAGATCC 1

RESULT 163

US-10-672-866-91/c
; Sequence 91, Application US/10672866
; Publication No. US20050019915A1

```

; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 91
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-91

```

```

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 66 TGGCGACGAAGCGCGTGTGC 85
Db 20 TGGCGACGAAGCGCGTGTGC 1

```

```

RESULT 164
US-10-672-866-92/c
; Sequence 92, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 92
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-92

```

```

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 74 AAGCGCGTGTGCGTGTGAA 93
Db 20 AAGCGCGTGTGCGTGTGAA 1

```

```

RESULT 165
US-10-672-866-93/c
; Sequence 93, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie

```

```

; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 93
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-93

```

```

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 76 GCGCGTGTGCGTGTGAAGG 95
Db 20 GCGCGTGTGCGTGTGAAGG 1

```

```

RESULT 166
US-10-672-866-94/c
; Sequence 94, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 94
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-94

```

```

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 77 GCGCGTGTGCGTGTGAAGG 96
Db 20 GCGCGTGTGCGTGTGAAGG 1

```

```

RESULT 167
US-10-672-866-95/c
; Sequence 95, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION

```

; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 95
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-95

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 79 CGTGTGCGTCTGAAGGCG 98
|||||
Db 20 CGTGTGCGTCTGAAGGCG 1

RESULT 168
US-10-672-866-96/c
; Sequence 96, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Doble
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 96
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-96

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 80 GTGTGCGTCTGAAGGCGA 99
|||||
Db 20 GTGTGCGTCTGAAGGCGA 1

RESULT 169
US-10-672-866-97/c
; Sequence 97, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Doble
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26

; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 97
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-97

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 82 GTGCGTCTGAAGGCGACG 101
|||||
Db 20 GTGCGTCTGAAGGCGACG 1

RESULT 170
US-10-672-866-98/c
; Sequence 98, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Doble
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 98
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-98

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 83 TGCCTGCTGAAGGCGACG 102
|||||
Db 20 TGCCTGCTGAAGGCGACG 1

RESULT 171
US-10-672-866-99/c
; Sequence 99, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Doble
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360

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; NUMBER OF SE
; SEO ID NO 101

```

; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-103

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 296 GAAGAGGCGCATGTTGGAGA 315
Db 20 GAAGAGGCGCATGTTGGAGA 1

RESULT 176
US-10-672-866-104/c
; Sequence 104, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 104
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-104

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 297 AAGAGGCGCATGTTGGAGAC 316
Db 20 AAGAGGCGCATGTTGGAGAC 1

RESULT 177
US-10-672-866-105/c
; Sequence 105, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 105
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-105

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 373 GTGATCTCACTCTCAGGAG 392
Db 20 GTGATCTCACTCTCAGGAG 1

RESULT 178
US-10-672-866-106/c
; Sequence 106, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 106
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-106

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 374 GTGATCTCACTCTCAGGAGA 393
Db 20 GTGATCTCACTCTCAGGAGA 1

RESULT 179
US-10-672-866-107/c
; Sequence 107, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 107
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-107

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 436 AGATGACTTGGGCAAAAGGTG 455
 |||||
 Db 20 AGATGACTTGGGCAAAAGGTG 1

RESULT 180
 US-10-672-866-108/c
 ; Sequence 108, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 108
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-108

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 437 GATGACTTGGGCAAAAGGTG 456
 |||||
 Db 20 GATGACTTGGGCAAAAGGTG 1

RESULT 181
 US-10-672-866-109/c
 ; Sequence 109, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 109
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-109

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 438 ATGACTTGGGCAAAAGGTG 457

Db 20 ATGACTTGGGCAAAAGGTG 1
 |||||

RESULT 182
 US-10-672-866-110/c
 ; Sequence 110, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 110
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-110

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 439 TGACTTGGGCAAAAGGTG 458
 |||||
 Db 20 TGACTTGGGCAAAAGGTG 1

RESULT 183
 US-10-672-866-111/c
 ; Sequence 111, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; TITLE OF INVENTION: EXPRESSION
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 111
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-111

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 441 ACTTGGGCAAAAGGTG 460
 |||||
 Db 20 ACTTGGGCAAAAGGTG 1

```
RESULT 184
US-10-672-866-112/c
; Sequence 112, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 112
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-112

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 442 CTTGGGCAAAAGGTGGAATG 461
DB 20 CTTGGGCAAAAGGTGGAATG 1

RESULT 185
US-10-672-866-113/c
; Sequence 113, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 113
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-113

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 443 TTGGGCAAAAGGTGGAATGA 462
DB 20 TTGGGCAAAAGGTGGAATGA 1

RESULT 186
US-10-672-866-114/c
; Sequence 114, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 114
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-114

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 444 TGGGCAAAAGGTGGAATGAA 463
DB 20 TGGGCAAAAGGTGGAATGAA 1

RESULT 187
US-10-672-866-115/c
; Sequence 115, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 115
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-115

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 445 GGGCAAAAGGTGGAATGAAG 464
DB 20 GGGCAAAAGGTGGAATGAAG 1

RESULT 188
US-10-672-866-116/c
; Sequence 116, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
```

```

; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 116
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-116

```

```

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 446 GCGAAGGTGGAATGAAGA 465
DB 20 GCGAAGGTGGAATGAAGA 1

```

```

RESULT 189
US-10-672-866-117/c
; Sequence 117, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 117
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-117

```

```

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 447 GCGAAGGTGGAATGAAGA 466
DB 20 GCGAAGGTGGAATGAAGA 1

```

```

RESULT 190
US-10-672-866-118/c
; Sequence 118, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242

```

```

; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 118
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-118

```

```

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 448 CAAAGGTGGAATGAAGAA 467
DB 20 CAAAGGTGGAATGAAGAA 1

```

```

RESULT 191
US-10-672-866-119/c
; Sequence 119, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 119
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-119

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Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

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QY 449 AAAGGTGGAATGAAGAAAG 468
DB 20 AAAGGTGGAATGAAGAAAG 1

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RESULT 192
US-10-672-866-120/c
; Sequence 120, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242

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; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 120
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-120

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 450 AAGTGGAAATGAAGAAAGT 469
Db 20 AAGTGGAAATGAAGAAAGT 1

RESULT 193
US-10-672-866-121/c
; Sequence 121, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 121
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-121

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 451 AAGTGGAAATGAAGAAAGT 470
Db 20 AAGTGGAAATGAAGAAAGT 1

RESULT 194
US-10-672-866-122/c
; Sequence 122, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 122
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-122

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 452 GTGGAAATGAAGAAAGTAC 471
Db 20 GTGGAAATGAAGAAAGTAC 1

RESULT 195
US-10-672-866-123/c
; Sequence 123, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 123
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-123

Query Match          2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 453 GTGGAAATGAAGAAAGTACA 472
Db 20 GTGGAAATGAAGAAAGTACA 1

RESULT 196
US-10-672-866-124/c
; Sequence 124, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 124
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-124
```

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; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 124
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-124

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 454 TGGAAATGAAGAAAGTACAA 473
Db 20 TGGAAATGAAGAAAGTACAA 1

RESULT 197
US-10-672-866-125/c
; Sequence 125, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 125
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-125

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 455 GGAATGAAGAAAGTACAA 474
Db 20 GGAATGAAGAAAGTACAA 1

RESULT 198
US-10-672-866-126/c
; Sequence 126, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 126
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-126

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 456 GAAATGAAGAAAGTACAAAG 475
Db 20 GAAATGAAGAAAGTACAAAG 1

RESULT 199
US-10-672-866-127/c
; Sequence 127, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 127
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-127

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 457 AAATGAAGAAAGTACAAAGA 476
Db 20 AAATGAAGAAAGTACAAAGA 1

RESULT 200
US-10-672-866-128/c
; Sequence 128, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 128
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

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; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-128

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 458 AATGAAGAAAGTACAAAGAC 477
Db 20 AATGAAGAAAGTACAAAGAC 1

RESULT 201
US-10-672-866-129/c
; Sequence 129, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 129
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-129

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 127 CGAGCAGAGGAAAGTAATG 146
Db 20 CGAGCAGAGGAAAGTAATG 1

RESULT 202
US-10-672-866-130/c
; Sequence 130, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 130
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-130
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```
Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 294 ATGAAGAGAGGCATGTTGGA 313
Db 20 ATGAAGAGAGGCATGTTGGA 1

RESULT 203
US-10-672-866-138/c
; Sequence 138, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 138
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-138

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 849 TGAGGCTATTAAAGAATCC 868
Db 20 TGAGGCTATTAAAGAATCC 1

RESULT 204
US-10-672-866-168/c
; Sequence 168, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 168
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-168

Query Match      2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 73 GAAGCCGTGCTGCTGCTGA 92
 Db 20 GAAGCCGTGCTGCTGCTGA 1

RESULT 205
 US-10-672-866-169/c
 ; Sequence 169, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: 10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 169
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-169

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 78 CCGTGTGCTGCTGAAGGC 97
 Db 20 CCGTGTGCTGCTGAAGGC 1

RESULT 206
 US-10-672-866-170/c
 ; Sequence 170, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 170
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-170

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 81 TGTGCTGCTGAAGGCAC 100
 Db 20 TGTGCTGCTGAAGGCAC 1

Db 20 TGTGCTGCTGAAGGCAC 1

RESULT 207
 US-10-672-866-250/c
 ; Sequence 250, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 250
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-250

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 75 AGCCCGTGTGCTGCTGAAG 94
 Db 20 AGCCCGTGTGCTGCTGAAG 1

RESULT 208
 US-10-672-866-314/c
 ; Sequence 314, Application US/10672866
 ; Publication No. US20050019915A1
 ; GENERAL INFORMATION:
 ; APPLICANT: C. Frank Bennett
 ; APPLICANT: Kenneth Dobie
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
 ; TITLE OF INVENTION: SOLUBLE
 ; FILE REFERENCE: RTS-0242
 ; CURRENT APPLICATION NUMBER: US/10/672,866
 ; CURRENT FILING DATE: 2003-09-26
 ; PRIOR APPLICATION NUMBER: 10/633,843
 ; PRIOR FILING DATE: 2003-08-04
 ; PRIOR APPLICATION NUMBER: 09/888,360
 ; PRIOR FILING DATE: 2001-06-21
 ; NUMBER OF SEQ ID NOS: 339
 ; SEQ ID NO 314
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Antisense Oligonucleotide
 US-10-672-866-314

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 440 GACTTGGGCAAGGTGAAA 459
 Db 20 GACTTGGGCAAGGTGAAA 1

RESULT 209
US-10-301-516-29
; Sequence 29, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown wild-type siRNA p9
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: wild-type siRNA p9
US-10-301-516-29

Query Match 2.3%; Score 20; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 81;
Matches 16; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 312 GAGACTTGGGCAATGTGACT 331
|||||:|||||:|||||
DB 1 GAGACUUGGGCAUGUGACT 20

RESULT 210
US-10-700-816-9
; Sequence 9, Application US/10700816
; Publication No. US20040192629A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Zuoshang
; TITLE OF INVENTION: Allele-Specific RNA Interference
; FILE REFERENCE: UMY-038
; CURRENT APPLICATION NUMBER: US/10/700,816
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: 60/423,507
; PRIOR FILING DATE: 2002-11-04
; PRIOR APPLICATION NUMBER: 60/488,283
; PRIOR FILING DATE: 2003-07-18
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-700-816-9

Query Match 2.3%; Score 20; DB 1; Length 25;
Best Local Similarity 80.0%; Pred. No. 92;
Matches 16; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 312 GAGACTTGGGCAATGTGACT 331
|||||:|||||:|||||
DB 1 GAGACUUGGGCAUGUGACT 20

RESULT 211
US-10-301-516-17
; Sequence 17, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:

; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: target sequence
US-10-301-516-17

Query Match 2.2%; Score 19.4; DB 1; Length 21;
Best Local Similarity 95.2%; Pred. No. 91;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 335 GACAAAGATGCTGTGCCGAT 355
|||||:|||||:|||||
DB 1 GACAAAGATGCTGTGCCGAT 21

RESULT 212
US-10-301-516-18/c
; Sequence 18, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: target sequence
US-10-301-516-18

Query Match 2.2%; Score 19.4; DB 1; Length 21;
Best Local Similarity 95.2%; Pred. No. 91;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 335 GACAAAGATGCTGTGCCGAT 355
|||||:|||||:|||||
DB 21 GACAAAGATGCTGTGCCGAT 1

RESULT 213
US-10-301-516-30
; Sequence 30, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01

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; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 30
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown wild-type siRNA p10
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: wild-type siRNA p10
US-10-301-516-30

Query Match      2.2%; Score 19.4; DB 1; Length 21;
Best Local Similarity 76.2%; Pred. No. 91;
Matches 16; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 311 GGAGACTTGGGCAATGTGACT 331
      |||||:|||||:|||||:|||||
Db 1 GGAGACUUGGGCAAAUGUGATT 21

RESULT 214
US-10-301-516-31
; Sequence 31, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 31
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown wild-type siRNA p11
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: wild-type siRNA p11
US-10-301-516-31

Query Match      2.2%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 97;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 310 TGGAGACTTGGGCAATGTG 328
      :|||||:|||||:|||||:|||||
Db 1 UGGAGACUUGGGCAAAUGUG 19

RESULT 215
US-10-301-516-37/c
; Sequence 37, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION

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; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 37
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown wild-type siRNA p9
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: wild-type siRNA p9
US-10-301-516-37

Query Match      2.2%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 97;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 312 GAGACTTGGGCAATGTGAC 330
      |||||:|||||:|||||:|||||
Db 19 GAGACTTGGGCAATGTGAC 1

RESULT 216
US-10-301-516-38/c
; Sequence 38, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 38
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown wild-type siRNA p10
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: wild-type siRNA p10
US-10-301-516-38

Query Match      2.2%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 97;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 311 GGAGACTTGGGCAATGTGA 329
      |||||:|||||:|||||:|||||
Db 19 GGAGACTTGGGCAATGTGA 1

RESULT 217
US-10-301-516-39/c
; Sequence 39, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION

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<pre>; TITLE OF INVENTION: EXPRESSION ; FILE REFERENCE: RTN-0242 ; CURRENT APPLICATION NUMBER: US/10/301,516 ; CURRENT FILING DATE: 2002-11-21 ; PRIOR APPLICATION NUMBER: 60/366,478 ; PRIOR FILING DATE: 2002-03-21 ; NUMBER OF SEQ ID NOS: 39 ; SOFTWARE: PatentIn Ver. 2.1 ; SEQ ID NO 39 ; LENGTH: 21 ; TYPE: DNA ; ORGANISM: Unknown Organism ; FEATURE: ; OTHER INFORMATION: Description of Combined DNA/RNA Molecule: ; OTHER INFORMATION: Unknown wild-type siRNA p11 ; OTHER INFORMATION: Description of Unknown Organism: Unknown ; OTHER INFORMATION: wild-type siRNA p11 US-10-301-516--39</pre>	<pre>Query Match 2.2%; Score 19; DB 1; Length 21; Best Local Similarity 100.0%; Pred. No. 97; Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;</pre>
<pre>Qy 310 TGGAGACTTGGGCAATGTG 328 Db 19 TGGAGACTTGGGCAATGTG 1</pre>	<pre>RESULT 218 US-10-672-866-167/c ; Sequence 167, Application US/10672866 ; Publication No. US20050019915A1 ; GENERAL INFORMATION: ; APPLICANT: C. Frank Bennett ; APPLICANT: Kenneth Dobie ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, ; TITLE OF INVENTION: SOLUBLE ; FILE REFERENCE: RTS-0242 ; CURRENT APPLICATION NUMBER: US/10/672,866 ; CURRENT FILING DATE: 2003-09-26 ; PRIOR APPLICATION NUMBER: 10/633,843 ; PRIOR FILING DATE: 2003-08-04 ; PRIOR APPLICATION NUMBER: 09/888,360 ; PRIOR FILING DATE: 2001-06-21 ; NUMBER OF SEQ ID NOS: 39 ; SEQ ID NO 167 ; LENGTH: 20 ; TYPE: DNA ; ORGANISM: Artificial Sequence ; FEATURE: ; OTHER INFORMATION: Antisense Oligonucleotide US-10-672-866-167</pre>
<pre>Query Match 2.1%; Score 18.4; DB 1; Length 20; Best Local Similarity 95.0%; Pred. No. 1e+02; Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;</pre>	<pre>Qy 65 ATGCCGACGAAGCCCTGTG 84 Db 20 ATGCCGATGAAGGCCCTGTG 1</pre>
<pre>RESULT 219 US-10-672-866-171/c ; Sequence 171, Application US/10672866 ; Publication No. US20050019915A1 ; GENERAL INFORMATION: ; APPLICANT: C. Frank Bennett ; APPLICANT: Kenneth Dobie ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, ; TITLE OF INVENTION: SOLUBLE ; FILE REFERENCE: RTS-0242 ; CURRENT APPLICATION NUMBER: US/10/672,866 ; CURRENT FILING DATE: 2003-09-26 ; PRIOR APPLICATION NUMBER: 10/633,843 ; PRIOR FILING DATE: 2003-08-04 ; PRIOR APPLICATION NUMBER: 09/888,360 ; PRIOR FILING DATE: 2001-06-21 ; NUMBER OF SEQ ID NOS: 39 ; SEQ ID NO 171 ; LENGTH: 20 ; TYPE: DNA ; ORGANISM: Artificial Sequence ; FEATURE: ; OTHER INFORMATION: Antisense Oligonucleotide US-10-672-866-171</pre>	<pre>Query Match 2.1%; Score 18.4; DB 1; Length 20; Best Local Similarity 95.0%; Pred. No. 1e+02; Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;</pre>
<pre>Qy 305 CATGTTGGAGACTTCGGCAA 324 Db 20 CATGTTGGAGACTTCGGCAA 1</pre>	<pre>RESULT 221 US-10-672-866-189/c ; Sequence 189, Application US/10672866 ; Publication No. US20050019915A1 ; GENERAL INFORMATION: ; APPLICANT: C. Frank Bennett ; APPLICANT: Kenneth Dobie ; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, ; TITLE OF INVENTION: SOLUBLE ; FILE REFERENCE: RTS-0242 ; CURRENT APPLICATION NUMBER: US/10/672,866 ; CURRENT FILING DATE: 2003-09-26 ; PRIOR APPLICATION NUMBER: 10/633,843 ; PRIOR FILING DATE: 2003-08-04 ; PRIOR APPLICATION NUMBER: 09/888,360 ; PRIOR FILING DATE: 2001-06-21 ; NUMBER OF SEQ ID NOS: 39 ; SEQ ID NO 189 ; LENGTH: 20 ; TYPE: DNA ; ORGANISM: Artificial Sequence ; FEATURE: ; OTHER INFORMATION: Antisense Oligonucleotide US-10-672-866-189</pre>

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; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 189
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-189

Query Match      2.1%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 1e+02; 1; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 308 GTTGAGACTTGGCAATGT 327
Db 20 GTTGAGACTTGGCAATGT 1

RESULT 222
US-10-672-866-249/c
; Sequence 249, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: R1S-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 249
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-249

Query Match      2.1%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 1e+02; 1; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 70 GACGAAGCCGTGTGCGTGC 89
Db 20 GATGAAGCCGTGTGCGTGC 1

RESULT 223
US-10-672-866-298/c
; Sequence 298, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: R1S-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04

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; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 298
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-298

Query Match      2.1%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 1e+02; 1; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 512 ATTGGATCGCCCAATAAAC 531
Db 20 ATTGGATCGCCCAATAAAC 1

RESULT 224
US-10-301-516-26
; Sequence 26, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown mutant siRNA p9
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: mutant siRNA p9
US-10-301-516-26

Query Match      2.1%; Score 18.4; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.1e+02; 1; Indels 0; Gaps 0;
Matches 15; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 312 GAGACTTGGCAATGTGACT 331
Db 1 GAGAUUGCCCAUGUGACT 20

RESULT 225
US-10-672-866-315/c
; Sequence 315, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: R1S-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360

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; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 315
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-672-866-315

Query Match      2.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 77 GCCGTGTGCTGTGAAG 94
   |||||
Db 18 GCCGTGTGCTGTGAAG 1

RESULT 226
US-10-301-516-25
; Sequence 25, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 25
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown mutant siRNA p10
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: mutant siRNA p10
US-10-301-516-25

Query Match      2.0%; Score 17.8; DB 1; Length 21;
Best Local Similarity 71.4%; Pred. No. 1.2e+02;
Matches 15; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 311 GGAGACTTGGCAATGTGACT 331
   |||||:|:|:|:|:|:|
Db 1 GGAGACUUGCGCAUGUGATT 21

RESULT 227
US-10-301-516-15
; Sequence 15, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 15

; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-301-516-15

Query Match      2.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 311 GGAGACTTGGCAATGTGA 329
   |||||
Db 1 GGAGACTTGGCAATGTGA 19

RESULT 228
US-10-301-516-16/c
; Sequence 16, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 16
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-301-516-16

Query Match      2.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 311 GGAGACTTGGCAATGTGA 329
   |||||
Db 19 GGAGACTTGGCAATGTGA 1

RESULT 229
US-10-672-866-286/c
; Sequence 286, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RFS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 286
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
```

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; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-286

Query Match          2.0%; Score 17.4; DB 1; Length 20;
Best Local Similarity 94.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 310 TGGAGACTTGGGCAATGTG 328
      |||||:|||||:|||||
Db 20 TGGAGACCTGGGCAATGTG 2

RESULT 230
US-10-301-516-24
; Sequence 24, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown mutant siRNA p11
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: mutant siRNA p11
US-10-301-516-24

Query Match          2.0%; Score 17.4; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.3e+02;
Matches 13; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 310 TGGAGACTTGGGCAATGTG 328
      :|||||:|||||:|||||
Db 1 UGGAGACUUGCGCAUGUG 19

RESULT 231
US-10-301-516-34/c
; Sequence 34, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown mutant siRNA p11
; OTHER INFORMATION: Unknown mutant siRNA p11

; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: mutant siRNA p11
US-10-301-516-34/c

Query Match          2.0%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.3e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 311 GGAGACTTGGGCAATGTGA 329
      |||||:|||||:|||||
Db 19 GGAGACTTGGGCAATGTGA 1

RESULT 233
US-10-301-516-36/c
; Sequence 36, Application US/10301516
; Publication No. US20030180756A1
; GENERAL INFORMATION:
; APPLICANT: SHI, YANG
; APPLICANT: SUI, GUANGCHAO
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: HMV-084.01
; CURRENT APPLICATION NUMBER: US/10/301,516
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/366,478
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Unknown mutant siRNA p11
; OTHER INFORMATION: mutant siRNA p11
US-10-301-516-36/c

Query Match          2.0%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.3e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 311 GGAGACTTGGGCAATGTGA 329
      |||||:|||||:|||||
Db 19 GGAGACTTGGGCAATGTGA 1

```

```
; OTHER INFORMATION: Unknown mutant siRNA p9
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Unknown
; OTHER INFORMATION: mutant siRNA p9
US-10-301-516-36

Query Match          2.0%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.3e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 312 GAGACTTGGCGCAATGTGAC 330
Db 19 GAGACTTGGCGCAATGTGAC 1

RESULT 234
US-10-672-866-194/c
; Sequence 194, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 194
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-194

Query Match          1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 345 GTGTGGCCGATGTCTATT 364
Db 20 GTGTGGCCGATGTCTATT 1

RESULT 235
US-10-672-866-195/c
; Sequence 195, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 195
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-195

; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-195

Query Match          1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 350 GCGATGTCTATTGAAGA 369
Db 20 GCGATGTCTATTGAAGA 1

RESULT 236
US-10-672-866-199/c
; Sequence 199, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 199
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-199

Query Match          1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 392 GACCATTCATTCATTCGCG 411
Db 20 GACCATTCATTCATTCGCG 1

RESULT 237
US-10-672-866-205/c
; Sequence 205, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 205
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-205
```

Query Match 1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 487 TGAAGTCGTTGGCTGTG 506
||||| ||||| ||||| |||||
DB 20 TGAAGCCGCTTGGCTGTG 1

RESULT 238
US-10-672-866-207/c
; Sequence 207, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 207
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-207

Query Match 1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 503 TGTGGTGAATGGGATCG 522
||||| ||||| ||||| |||||
DB 20 TGTGGTGAATGGGATGC 1

RESULT 239
US-10-672-866-208/c
; Sequence 208, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 208
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-208

Query Match 1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 506 GGTGAATGGGATGCCCA 525
||||| ||||| ||||| |||||
DB 20 GGTGAATGGGATGCCCA 1

RESULT 240
US-10-672-866-209/c
; Sequence 209, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 209
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-209

Query Match 1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 510 TAAATGGGATGCCCAATAA 529
||||| ||||| ||||| |||||
DB 20 TGATTTGGGATGCCCAATAA 1

RESULT 241
US-10-672-866-215/c
; Sequence 215, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 215
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-215

Query Match 1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 562 ACTCATCTTATCCTGCTA 581
||||| ||||| ||||| |||||

```
Db      20 ACTCATCTGCTGCTGCTA 1

RESULT 242
US-10-672-866-287/c
; Sequence 287, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT FILING DATE: 2003-09-26
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 287
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-287

Query Match      1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      312 GAGACTTGGGCAATGTGACT 331
      ||||| ||||| ||||| |||||
Db      20 GAGACCTGGGCAATGTGGCT 1

RESULT 243
US-10-672-866-291/c
; Sequence 291, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT FILING DATE: 2003-09-26
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 291
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-291

Query Match      1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      348 TGGCCGATGTGTCTATTGAA 367
      ||||| ||||| ||||| |||||
Db      20 TGGCCCAATGTGTCATTGAA 1
```

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RESULT 244
US-10-672-866-296/c
; Sequence 296, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT FILING DATE: 2003-09-26
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 296
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-296

Query Match      1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      489 GAAGTCGTTGGCTTGCTGCT 508
      ||||| ||||| ||||| |||||
Db      20 GAAGCCGCTTGGCTTGCTGCT 1

RESULT 245
US-10-672-866-297/c
; Sequence 297, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT FILING DATE: 2003-09-26
; CURRENT APPLICATION NUMBER: US/10/672,866
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 297
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-297

Query Match      1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      508 TGTATTGGATGCCCAAT 527
      ||||| ||||| ||||| |||||
Db      20 TGTGATTGGGATGCCCAAT 1

RESULT 246
US-10-190-366-126
; Sequence 126, Application US/10190366
```

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; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 159
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Primer
US-10-672-866-159

Query Match      1.8%; Score 16; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      87  TGCTGAAGGGCGGCGG 102
      |||||
DB      1  TGCTGAAGGGCGGCGG 16

RESULT 249
US-10-333-429-260/c
; Sequence 260, Application US/103333429
; Publication No. US20040048265A1
; GENERAL INFORMATION:
; APPLICANT: GENSET
; TITLE OF INVENTION: Obesity Associated Biallelic Marker Maps
; FILE REFERENCE: G-083US02PCT
; CURRENT APPLICATION NUMBER: US/10/333,429
; CURRENT FILING DATE: 2003-01-17
; PRIOR APPLICATION NUMBER: PCT/IB01/01477
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/219,704
; PRIOR FILING DATE: 2000-07-18
; NUMBER OF SEQ ID NOS: 579
; SOFTWARE: Patent.pm
; SEQ ID NO 260
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..18
; OTHER INFORMATION: upstream amplification primer 99-32162 for SEQ 89,
US-10-333-429-260

Query Match      1.8%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      153  TGAAGGTGTGGGAAG 168
      |||||
DB      16  TGAAGGTGTGGGAAG 1

RESULT 250
US-10-197-280A-27
; Sequence 27, Application US/10197280A
; Publication No. US20030163837A1
; GENERAL INFORMATION:
; APPLICANT: Aldwinckle, Herbert S.
; APPLICANT: Gaitan, Alvaro L.
; TITLE OF INVENTION: CONSTITUTIVE AND INDUCIBLE PROMOTERS FROM COFFEE PLANTS
; FILE REFERENCE: 19603/3262
; CURRENT APPLICATION NUMBER: US/10/197,280A
; CURRENT FILING DATE: 2002-07-16
; PRIOR APPLICATION NUMBER: 60/180,934
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: 09/545,686
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 27
; LENGTH: 19
; TYPE: DNA

```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Oligonucleotide Primer
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (5)
; OTHER INFORMATION: N at any position in this sequence is either A, C,
; OTHER INFORMATION: G, or T.
US-10-197-280A-27

Query Match      1.8%; Score 16; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 195 ATGATTCCCATGTCATG 212
      |||||
Db 1 ATGNTTCATGTCATG 18

RESULT 251
US-10-484-577-356
; Sequence 356, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A
; FILE REFERENCE: F2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 356
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (9)..(9)
; OTHER INFORMATION: r=a or g
US-10-484-577-356

Query Match      1.8%; Score 15.6; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
      |||||
Db 2 GCAATGTGACTGCTGA 17

RESULT 252
US-10-672-866-139/c
; Sequence 139, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2003-08-04
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 148
```

```
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 139
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-139

Query Match      1.7%; Score 15; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 129 AGCAGAAGGAAGTA 143
      |||||
Db 15 AGCAGAAGGAAGTA 1

RESULT 253
US-10-672-866-140/c
; Sequence 140, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 140
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-140

Query Match      1.7%; Score 15; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 296 GAAGAGAGCATGTT 310
      |||||
Db 15 GAAGAGAGCATGTT 1

RESULT 254
US-10-672-866-148/c
; Sequence 148, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 148
```

```

; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-148

Query Match      1.7%; Score 15; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      851 AGGCTATTAAAGAA 865
      |||||
Db      15 AGGCTATTAAAGAA 1

RESULT 255
US-10-484-577-355/c
; Sequence 355, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGTL1
; FILE REFERENCE: F2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 355
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (8)..(8)
; OTHER INFORMATION: y=c or t
US-10-484-577-355

Query Match      1.7%; Score 15; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.7e+02;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      319 GGGCAATGTGACTGCTG 335
      |||||
Db      17 GTGCAATGTRACTGCTG 1

RESULT 256
US-09-863-086-102/c
; Sequence 102, Application US/09863086
; Patent No. US20020048762A1
; GENERAL INFORMATION:
; APPLICANT: Rossau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. US20020048762Alwest Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; CURRENT APPLICATION DATA: US/09/863,086
; FILING DATE: 22-May-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/312,520
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 29-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A

```

```

SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
; Application Number: US/09/863,086
; Filing Date: 22-May-2001
; CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
; Application Number: 09/312,520
; Filing Date: <Unknown>
; Application Number: 08/412,614
; Filing Date: 29-MAR-1995
ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A
; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332/9081
; TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 102:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: <Unknown>
; ORIGINAL SOURCE:
; SEQUENCE DESCRIPTION: SEQ ID NO: 102:
US-09-863-086-102

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      67 GCGGACGAGGCGCTG 82
      |||||
Db      16 GCGGACGAGGACGTG 1

RESULT 257
US-09-863-086-104/c
; Sequence 104, Application US/09863086
; Patent No. US20020048762A1
; GENERAL INFORMATION:
; APPLICANT: Rossau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. US20020048762Alwest Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA: US/09/863,086
; FILING DATE: 22-May-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/312,520
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 29-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A

```


; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332/9081
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: <Unknown>
; ORIGINAL SOURCE:
; SEQUENCE DESCRIPTION: SEQ ID NO: 104:
US-09-863-086-104

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGCAGCAAGCGGTG 82
Db 16 GCGCAGCAAGGACGTG 1

RESULT 258
US-09-780-533A-2234/c
; Sequence 2234, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haeblerli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MHB00.878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 2234
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-2234

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 857 TTAAGAAGATCCAAAT 872
Db 17 TTAAGAGATTCAAAT 2

RESULT 259
US-09-780-533A-2326
; Sequence 2326, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haeblerli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene

; FILE REFERENCE: MHB00.878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 2326
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-2326

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 68.8%; Pred. No. 1.9e+02;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 822 AATAAAACCCGTAT 837
Db 1 AAUAAAAACCCUGAU 16

RESULT 260
US-10-672-238-102/c
; Sequence 102, Application US/10672238
; Publication No. US20040053320A1
; GENERAL INFORMATION:
; APPLICANT: Rossau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. US20040053320A1west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/672,238
; FILING DATE: 25-Sep-2003
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/863,086
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 22-May-2001
; APPLICATION NUMBER: 09/312,520
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 08/412,614
; FILING DATE: 29-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hillson, Randall A
; REGISTRATION NUMBER: 31,838
; REFERENCE/DOCKET NUMBER: 8076.75USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332/9081
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 102:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO

```

; FRAGMENT TYPE: <Unknown>
; ORIGINAL SOURCE:
; SEQUENCE DESCRIPTION: SEQ ID NO: 102:
US-10-672-238-102

```

```
Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

Qy 67 GCGACGAAGGCCGTG 82
|||
Db 16 GCGACGAAGGCACGTG 1

RESULT 261
US-10-672-238-104/c
; Sequence 104, Application US/10672238
; Publication No. US2004005320A1
; GENERAL INFORMATION:
; APPLICANT: Ronsau, Rudi
; TITLE OF INVENTION: HYBRIDIZATION PROBES DERIVED FROM THE SPACER
; REGION BETWEEN THE 16S A
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. US2004005320A1west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.

Query Match	1.6%	Score 14.4;	DB 1;	Length 17;
Best Local Similarity	93.8%	Pred. No. 1.9e+02;		
Matches 15: Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

Qy 67 GGCGACGAAGGCCGTG 82
db 16 GGCGACGAAGGACGTG 1

RESULT 262
US-10-484-577-353/c
; Sequence 353, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved tree
; FILE REFERENCE: P2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 353
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-353

```

Query Match          1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

QY 321 GCAATGTGACTGCTGA 336
|||||
Db 16 GCAATGTAAGTCTGA 1

```

RESULT 263
US-10-484-577-354
; Sequence 354, Application US/10484577
; Publication NO. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved tree
; FILE REFERENCE: F2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 354
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-354

```

```
Query Match      1.6%; Score 14.4; DB 1; Length.17;
Best Local Similarity 93.8%; Pred. No. 1.9e+02;
Matches 15: Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

QY 321 GCAATGTGACTGCTGA 336
|||||
Db 2 GCAATGTAAC TGCTGA 17

RESULT 264

```
US-09-864-785-2135
; Sequence 2135, Application US/09864785
; Patent No. US20020177568A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Draper, Ken
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; FILE REFERENCE: 400/022 (MBH00-812-D)
; CURRENT APPLICATION NUMBER: US/09/864,785
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 3929
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2135
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
US-09-864-785-2135

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 71.4%; Pred. No. 2e+02;
Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 830 CCTGTATGGCACT 843
Db 3 CCCUGAUGGCACU 16

RESULT 265
US-09-864-785-2949
; Sequence 2949, Application US/09864785
; Patent No. US20020177568A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Draper, Ken
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; FILE REFERENCE: 400/022 (MBH00-812-D)
; CURRENT APPLICATION NUMBER: US/09/864,785
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 3929
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2949
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
US-09-864-785-2949

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 71.4%; Pred. No. 2e+02;
Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 830 CCTGTATGGCACT 843
Db 1 CCCUGAUGGCACU 14

RESULT 266
US-09-780-533A-484/c
; Sequence 484, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
```

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; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00.878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 484
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-484

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 674 TGAGAAACTGATT 687
Db 14 TGAGAAACTGATT 1

RESULT 267
US-09-780-533A-1349/c
; Sequence 1349, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00.878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1349
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-1349

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 674 TGAGAAACTGATT 687
Db 17 TGAGAAACTGATT 4

RESULT 268
US-09-780-533A-1996/c
; Sequence 1996, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00.878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
```

```

; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1996
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-1996

Query Match      1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      674 TGAGAACTGATTT 587
DB      16 TGAGAACTGATTT 3

RESULT 269
US-10-633-843-54
; Sequence 54, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-54

Query Match      1.6%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      711 AGTTTATAAACT 724
DB      3 AGTTTATAAACT 16

RESULT 270
US-10-633-843-55
; Sequence 55, Application US/10633843
; Publication No. US2004009191A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1, SOLUBLE EXPRESSION
; FILE REFERENCE: ISPH-0756
; CURRENT APPLICATION NUMBER: US/10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: US 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 55
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-633-843-55

Query Match      1.6%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      711 AGTTTATAAACT 724
DB      6 AGTTTATAAACT 19

RESULT 271
US-10-672-866-54
; Sequence 54, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-54

Query Match      1.6%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      711 AGTTTATAAACT 724
DB      3 AGTTTATAAACT 16

RESULT 272
US-10-672-866-55
; Sequence 55, Application US/10672866
; Publication No. US20050019915A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Kenneth Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF SUPEROXIDE DISMUTASE 1,
; TITLE OF INVENTION: SOLUBLE
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0242
; CURRENT APPLICATION NUMBER: US/10/672,866
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/633,843
; PRIOR FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: 09/888,360
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 339
; SEQ ID NO 55
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-672-866-55

Query Match      1.6%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      711 AGTTTATAAACT 724

```

```
Db      |||||||
        6 AGTTTATAAACT 19

RESULT 273
US-09-866-108-8960
; Sequence 8960, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 8960
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-8960

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      183 CTGAAGCCCTGCATGGA 199
Db      1 CTGAAGCCCGACATGGA 17

RESULT 274
US-09-818-875-3142
; Sequence 3142, Application US/09818875
; Publication No. US20030051270A1
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/09/818,875
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 3143
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-818-875-3143

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      676 AGAAACTGATTATGAT 692
Db      17 AGATACTCATTATGAT 1

RESULT 275
US-09-818-875-3143/c
; Sequence 3143, Application US/09818875
; Publication No. US20030051270A1
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/09/818,875
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 3143
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-818-875-3143

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      676 AGAAACTGATTATGAT 692
Db      17 AGATACTCATTATGAT 1

RESULT 276
US-09-780-533A-1097/c
; Sequence 1097, Application US/09780533A
```

```
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haeblerli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MEH800.878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1097
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-1097

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      730 AAAATGCTGTTTCAAT 746
Db      17 AAAATGTTTGTGCAAT 1

RESULT 277
US-09-740-332-2757
; Sequence 2757, Application US/09740332
; Publication No. US20030125270A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Hepatitis C Virus Infection
; FILE REFERENCE: RPI 400/003
; CURRENT APPLICATION NUMBER: US/09/740,332
; CURRENT FILING DATE: 2001-03-26
; NUMBER OF SEQ ID NOS: 9704
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2757
; LENGTH: 17
; TYPE: RNA
; ORGANISM: artificial sequence
; FEATURE: NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: oligonucleotide substrate
US-09-740-332-2757

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.1e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      271 CAGAAACACGGTGGC 287
Db      1 CAGAAGACACGGUGGAC 17

RESULT 278
US-09-817-879-2757
; Sequence 2757, Application US/09817879
; Publication No. US20030171311A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Hepatitis C Virus Infection
; FILE REFERENCE: MEH800-801-F
; CURRENT APPLICATION NUMBER: US/09/817,879
; CURRENT FILING DATE: 2001-03-26
```

```
; NUMBER OF SEQ ID NOS: 9703
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2757
; LENGTH: 17
; TYPE: RNA
; ORGANISM: artificial sequence
; FEATURE: NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: oligonucleotide substrate
US-09-817-879-2757

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.1e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      271 CAGAAACACGGTGGC 287
Db      1 CAGAAGACACGGUGGAC 17

RESULT 279
US-10-230-006-533/c
; Sequence 533, Application US/10230006
; Publication No. US20030191077A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Fosnaugh, Kathy
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDITIONS
; FILE REFERENCE: 400/056 (MEHB01-1110)
; CURRENT APPLICATION NUMBER: US/10/230,006
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US 60/315,315
; PRIOR FILING DATE: 2001-08-28
; NUMBER OF SEQ ID NOS: 2678
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 533
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-230-006-533

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      91 GAAGGCGGACGCCCG 107
Db      17 GAAGGCGGAGGCCCG 1

RESULT 280
US-10-230-006-534/c
; Sequence 534, Application US/10230006
; Publication No. US20030191077A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Fosnaugh, Kathy
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDITIONS
; FILE REFERENCE: 400/056 (MEHB01-1110)
; CURRENT APPLICATION NUMBER: US/10/230,006
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US 60/315,315
; PRIOR FILING DATE: 2001-08-28
; NUMBER OF SEQ ID NOS: 2678
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 534
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-230-006-534
```

```
Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 87 TGCTGAAGGCGGACGGC 103
DB 17 TCGGAAGGCGGAGGGC 1

RESULT 281
US-10-230-006-1258/c
; Sequence 1258, Application US/10230006
; Publication No. US20030191077A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Foesnaugh, Kathy
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDIT
; FILE REFERENCE: 400/056 (MHB01-1110)
; CURRENT APPLICATION NUMBER: US/10/230,006
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US 60/315,315
; PRIOR FILING DATE: 2001-08-28
; NUMBER OF SEQ ID NOS: 2678
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 1258
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-230-006-1258

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 89 CTCGAAGGCGGACGGCC 105
DB 17 CGGAAGGCGGAGGGCCC 1

RESULT 282
US-10-209-787-3142
; Sequence 3142, Application US/10209787
; Publication No. US20030217377A1
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/10/209,787
; CURRENT FILING DATE: 2002-07-30
; PRIOR APPLICATION NUMBER: US 09/818,875
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 3142
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-209-787-3142

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 87 AGAACTGATTTATGAT 692
DB 17 AGATACTCATTATGAT 17

RESULT 283
US-10-209-787-3143/c
; Sequence 3143, Application US/10209787
; Publication No. US20030217377A1
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/10/209,787
; CURRENT FILING DATE: 2002-07-30
; PRIOR APPLICATION NUMBER: US 09/818,875
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 3143
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-209-787-3143

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAACTGATTTATGAT 692
DB 17 AGATACTCATTATGAT 17

RESULT 284
US-10-261-185-3142
; Sequence 3142, Application US/10261185
; Publication No. US20040014057A1
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; FILE REFERENCE: Napro-4CON
; CURRENT APPLICATION NUMBER: US/10/261,185
; CURRENT FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/09761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 3142
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-209-787-3142
```

```
Query Match          1.6%; Score 13.8; DB 1; Length 17;
```

```
; SEQ ID NO 3142
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-261-185-3142

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      676 AGAACTGATTATGAT 692
      ||| ||| ||| ||| ||| ||| |||
Db      1 AGATACTCATTATGAT 17

RESULT 285
US-10-261-185-3143/c
; Sequence 3143, Application US/10261185
; Publication No. US20040014057A1
; GENERAL INFORMATION:
; APPLICANT: Knitec, Eric B.
; APPLICANT: Gamper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; TITLE OF INVENTION: Stranded Oligonucleotides
; FILE REFERENCE: Napro-4CON
; CURRENT APPLICATION NUMBER: US/10/261,185
; CURRENT FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/09761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 3143
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-261-185-3143

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      676 AGAACTGATTATGAT 692
      ||| ||| ||| ||| ||| ||| |||
Db      17 AGATACTCATTATGAT 1

RESULT 286
US-10-138-674-2787/c
; Sequence 2787, Application US/10138674
; Publication No. US20040077565A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2787
```

```
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Mus musculus
US-10-138-674-2787

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      543 TGTAGTCTCAGGCCCT 559
      ||| ||| ||| ||| ||| ||| |||
Db      17 TGCAGTCTCAGGTCCCT 1

RESULT 287
US-10-138-674-5100/c
; Sequence 5100, Application US/10138674
; Publication No. US20040077565A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5100
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-5100

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      239 ACCAGTGCAGGTCTCA 255
      ||| ||| ||| ||| ||| ||| |||
Db      17 ATCAGTGCAGTCTCTCA 1

RESULT 288
US-10-138-674-6796
; Sequence 6796, Application US/10138674
; Publication No. US20040077565A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6796
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-6796

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 47.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
```


QY 642 ACTTTTTCAGAGTTGCT 558
|| :||:|||||: :
Db 1 ACGUUUCAGAGUUGGU 17

RESULT 289
US-10-138-674-7893/c
; Sequence 7893, Application US/10138674
; Publication No. US20040077565A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH800-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7893
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-7893

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 241 CAGTGCAGGTCCTCACT 257
|||||:|||||:|
Db 17 CAGTGCAGGTCCTCACT 1

RESULT 290
US-10-287-949A-2787/c
; Sequence 2787, Application US/10287949A
; Publication No. US20040102389A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH800-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/287,949A
; CURRENT FILING DATE: 2003-04-11
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2787
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Mus musculus
US-10-287-949A-2787

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 543 TGTAGTCTGAGGCCCT 559
||:|||||:|||||
Db 17 TGCAGTCTGAGGCCCT 1

RESULT 291
US-10-287-949A-5100/c
; Sequence 5100, Application US/10287949A
; Publication No. US20040102389A1

; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH800-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/287,949A
; CURRENT FILING DATE: 2003-04-11
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5100
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-287-949A-5100

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 239 ACCAGTGCAGTCTCTCA 255
||:|||||:|||||
Db 17 ATCAGTGCAGTCTCTCA 1

RESULT 292
US-10-287-949A-6796
; Sequence 6796, Application US/10287949A
; Publication No. US20040102389A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH800-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/287,949A
; CURRENT FILING DATE: 2003-04-11
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6796
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-287-949A-6796

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 47.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 642 ACTTTTTCAGAGTTGCT 658
|| :||:|||||: :
Db 1 ACGUUUCAGAGUUGGU 17

RESULT 293
US-10-287-949A-7893/c
; Sequence 7893, Application US/10287949A
; Publication No. US20040102389A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH800-876-N (400/049)

; CURRENT APPLICATION NUMBER: US/10/287,949A
; CURRENT FILING DATE: 2003-04-11
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7893
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-287-949A-7893

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 241 CAGTGCAGGTCCTCACT 257
Db 17 CAGTGCAGTCTCTCAAT 1

RESULT 294

US-10-669-841-5350
; Sequence 5350, Application US/10669841
; Publication No. US20040127446A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Lawrence, Blatt
; APPLICANT: Dennis, Macejak
; APPLICANT: James, McSwiggen
; APPLICANT: David, Morrissey
; APPLICANT: Pamela, Pavco
; APPLICANT: Patricia, Lee
; APPLICANT: Kenneth, Draper
; APPLICANT: Elisabeth, Roberts
; TITLE OF INVENTION: OLIGONUCLEOTIDE MEDIATED INHIBITION OF HEPATITIS B VIRUS AND HEPATITIS A VIRUS
; FILE REFERENCE: 400/042US (MHB02-249-E)
; CURRENT APPLICATION NUMBER: US/10/669,841
; CURRENT FILING DATE: 2003-09-23
; PRIOR APPLICATION NUMBER: PCT/US02/09187
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: US 60/296,876
; PRIOR FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: US 60/335,059
; PRIOR FILING DATE: 2001-10-24
; PRIOR APPLICATION NUMBER: US 60/337,055
; PRIOR FILING DATE: 2001-12-05
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 09/817,879
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: US 09/740,332
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: US 09/611,931
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 09/504,321
; PRIOR FILING DATE: 2000-02-15
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 16207
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5350
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
; FEATURE: NAME/key: misc_feature
; LOCATION:
; OTHER INFORMATION: oligonucleotide substrate
US-10-669-841-5350

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.1e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 271 CAGAAAACACGGTGGGC 287
Db 1 CAGAAACACACGGUGGAC 17

RESULT 295

US-10-723-361-8960
; Sequence 8960, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART ANI
; FILE REFERENCE: PB0105
; CURRENT APPLICATION NUMBER: US/10/723,361
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 09/866,108
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeonica Sequence Listing Engine
; SEQ ID NO 8960
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-361-8960

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 183 CTGAAGGCGCTGCATGGA 199
Db 1 CTGAAGGCGGCATGGA 17

RESULT 296

US-10-681-074-3142
; Sequence 3142, Application US/10681074
; Publication No. US20040175722A1
; GENERAL INFORMATION:
; APPLICANT: KMEC, ERIC B.
; APPLICANT: VAN BRABANT, ANJA
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REDUCING SCREENING IN
; TITLE OF INVENTION: OLIGONUCLEOTIDE-DIRECTED NUCLEIC ACID SEQUENCE ALTERATION
; FILE REFERENCE: NaPro-18 US

```
; CURRENT APPLICATION NUMBER: US/10/681,074
; CURRENT FILING DATE: 2003-10-07
; PRIOR APPLICATION NUMBER: US 60/453,360
; PRIOR FILING DATE: 2003-03-07
; PRIOR APPLICATION NUMBER: US 60/416,983
; PRIOR FILING DATE: 2002-10-07
; NUMBER OF SEQ ID NOS: 4375
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 3142
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-681-074-3142

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAACTGATTATGAT 692
   ||| ||| ||| ||| ||| |||
Db 1 AGATACTCATTTATGAT 17

RESULT 297
US-10-681-074-3143/c
; Sequence 3143, Application US/10681074
; Publication No. US20040175722A1
; GENERAL INFORMATION:
; APPLICANT: KMEC, ERIC B.
; APPLICANT: VAN BRABANT, ANJA
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REDUCING SCREENING IN
; FILE REFERENCE: OLIGONUCLEOTIDE-DIRECTED NUCLEIC ACID SEQUENCE ALTERATION
; CURRENT APPLICATION NUMBER: US/10/681,074
; CURRENT FILING DATE: 2003-10-07
; PRIOR APPLICATION NUMBER: US 60/453,360
; PRIOR FILING DATE: 2003-03-07
; PRIOR APPLICATION NUMBER: US 60/416,983
; PRIOR FILING DATE: 2002-10-07
; NUMBER OF SEQ ID NOS: 4375
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 3143
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-681-074-3143

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAACTGATTATGAT 692
   ||| ||| ||| ||| ||| |||
Db 17 AGATACTCATTTATGAT 1

RESULT 298
US-10-712-633-1027/c
; Sequence 1027, Application US/10712633
; Publication No. US20040220128A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pamela
; APPLICANT: Sandberg, Jennifer
; APPLICANT: Gordon, Gilad
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan
; TITLE OF INVENTION: NUCLEIC ACID BASED MODULATION OF VASCULAR ENDOTHELIAL GROWTH FACT
; FILE REFERENCE: RECEPTOR FOR THE TREATMENT OF ANGIOGENESIS RELATED DISEASES AND
; FILE REFERENCE: MHB02-325PCT (400/047)
; CURRENT APPLICATION NUMBER: US/10/712,633
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/005,974
```

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; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; PRIOR APPLICATION NUMBER: US 09/371,772
; PRIOR FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 09/708,690
; PRIOR FILING DATE: 2000-11-07
; PRIOR APPLICATION NUMBER: US 09/870,161
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: US 60/334,461
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: US 10/138,674
; PRIOR FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 5989
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 1027
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo Sapiens
US-10-712-633-1027

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 241 CAGTGCAGTCTCTCACT 257
   ||| ||| ||| ||| ||| |||
Db 17 CAGTGCAGTCTCTCAAT 1

RESULT 299
US-10-498-462-563/c
; Sequence 563, Application US/10498462
; Publication No. US20040259175A1
; GENERAL INFORMATION:
; APPLICANT: Guo, Jinjiao
; TITLE OF INVENTION: HUMAN PROSTATE CANCER CANDIDATE PROTEIN 1
; FILE REFERENCE: PB01102
; CURRENT APPLICATION NUMBER: US/10/498,462
; CURRENT FILING DATE: 2004-06-10
; PRIOR APPLICATION NUMBER: US 60/339,764
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: PCT/US02/37506
; PRIOR FILING DATE: 2002-11-22
; NUMBER OF SEQ ID NOS: 3320
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 563
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-498-462-563

Query Match          1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 635 TTGTGTGACTTTTTCAG 651
   ||| ||| ||| ||| ||| |||
Db 17 TTCTGAGACTTTTTCAG 1

RESULT 300
US-10-641-960-157
; Sequence 157, Application US/10641960
; Publication No. US20050037366A1
; GENERAL INFORMATION:
; APPLICANT: Gut, Joseph
; TITLE OF INVENTION: INDIVIDUAL DRUG SAFETY
; FILE REFERENCE: DT-6622
; CURRENT APPLICATION NUMBER: US/10/641,960
; CURRENT FILING DATE: 2003-08-14
; NUMBER OF SEQ ID NOS: 158
; SOFTWARE: Patent in Ver. 2.1
```

; SEQ ID NO 157
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-641-960-157

Query Match 1.5%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 2.1e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 83 TCGTGCTGAAGGC 97
Db 1 TCGTGCAAGAGGC 15

RESULT 301

US-10-608-062-2
; Sequence 2, Application US/10608062
; Publication No. US20040014122A1

; GENERAL INFORMATION:
; APPLICANT: BREEN, ALEXANDER
; TITLE OF INVENTION: DETECTION OF SPORE FORMING BACTERIA
; FILE REFERENCE: B1113P
; CURRENT APPLICATION NUMBER: US/10/608,062
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US 09/356,677
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: US 09/085,359
; PRIOR FILING DATE: 1998-05-27
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Bacillus cereus
US-10-608-062-2

Query Match 1.5%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 2.1e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 429 AAAAAAGCAGATGACT 443
Db 2 AAAAAAGCAGTTGACT 16

RESULT 302

US-10-138-674-5942/c
; Sequence 5942, Application US/10138674
; Publication No. US2004007565A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to the Growth of Endothelial Cells
; FILE REFERENCE: MBH00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5942
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-5942

Query Match 1.5%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 2.1e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 241 CAGTCAGGCTCTCA 255
Db 16 CAGTCAGGCTCTCA 2

RESULT 303

US-10-287-949A-5942/c
; Sequence 5942, Application US/10287949A
; Publication No. US20040102389A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to the Growth of Endothelial Cells
; FILE REFERENCE: MBH00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/287,949A
; CURRENT FILING DATE: 2003-04-11
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5942
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-287-949A-5942

Query Match 1.5%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 2.1e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 241 CAGTCAGGCTCTCA 255
Db 16 CAGTCAGGCTCTCA 2

RESULT 304

US-10-257-017B-154649/c
; Sequence 154649, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine methylation
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 154649
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0039096
US-10-257-017B-154649

Query Match 1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 527 TAAACATTCCTT 539
Db 13 TAAACATTCCTT 1

RESULT 305

US-10-257-017B-154650

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; Sequence 154650, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; PRIOR FILING DATE: 2002-10-07
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 154650
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0039096
US-10-257-017B-154650

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 527 TAAACATTCCTT 539
Db 1 TAAACATTCCTT 13

RESULT 306
US-10-257-017B-156539
; Sequence 156539, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; PRIOR FILING DATE: 2002-10-07
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 156539
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0039466
US-10-257-017B-156539

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 706 TGTATAGTTTAT 718
Db 1 TGTATAGTTTAT 13

RESULT 307
US-10-257-017B-156540/c
; Sequence 156540, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
```

```
; TITLE OF INVENTION: methylations
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 156540
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0039466
US-10-257-017B-156540

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 706 TGTATAGTTTAT 718
Db 13 TGTATAGTTTAT 1

RESULT 308
US-10-257-017B-201017
; Sequence 201017, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 201017
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0049445
US-10-257-017B-201017

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 215 TTGGAGATAATA 227
Db 1 TTGGAGATAATA 13

RESULT 309
US-10-257-017B-201018/c
; Sequence 201018, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
```

```
; SEQ ID NO 201018
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0049445
US-10-257-017B-201018

Query Match          1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 215 TTGTGGAGATAATA 227
Db 13 TTGTGGAGATAATA 1

RESULT 310
US-10-440-464-42/c
; Sequence 42, Application US/10440464
; Publication No. US20040018528A1
; GENERAL INFORMATION:
; APPLICANT: DEPRIMO, SAMUEL
; APPLICANT: O'FARRELL, ANNE-MARIE
; APPLICANT: MORIMOTO, ALYSSA
; APPLICANT: SMOLICH, BEVERLY
; APPLICANT: MANNING, WILLIAM
; APPLICANT: WALTER, SARAH
; APPLICANT: CHERINGTON, JULIE
; APPLICANT: SCHILLING, JIM
; TITLE OF INVENTION: NOVEL BIOMARKERS OF TYROSINE KINASE INHIBITOR EXPOSURE
; FILE REFERENCE: 038602/1592
; CURRENT APPLICATION NUMBER: US/10/440,464
; CURRENT FILING DATE: 2003-05-19
; PRIOR APPLICATION NUMBER: 60/380,872
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/448,922
; PRIOR FILING DATE: 2003-02-24
; PRIOR APPLICATION NUMBER: 60/448,874
; PRIOR FILING DATE: 2003-02-24
; NUMBER OF SEQ ID NOS: 185
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 42
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Probe
US-10-440-464-42

Query Match          1.5%; Score 13; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 441 ACTTGGGCAAAGG 453
Db 13 ACTTGGGCAAAGG 1

RESULT 311
US-10-138-674-7004
; Sequence 7004, Application US/10138674
; Publication No. US2004007565A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Favco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE REFERENCE: MBH900-876-N (400/049)
```

```
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 7004
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-7004

Query Match          1.5%; Score 13; DB 1; Length 16;
Best Local Similarity 84.6%; Pred. No. 2.3e+02;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 421 GGTCCATGAATAA 433
Db 4 GGUCCAUGAAAAA 16

RESULT 312
US-10-287-949A-7004
; Sequence 7004, Application US/10287949A
; Publication No. US20040102389A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Favco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE REFERENCE: MBH900-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/287,949A
; CURRENT FILING DATE: 2003-04-11
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 7004
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-287-949A-7004

Query Match          1.5%; Score 13; DB 1; Length 16;
Best Local Similarity 84.6%; Pred. No. 2.3e+02;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 421 GGTCCATGAATAA 433
Db 4 GGUCCAUGAAAAA 16

RESULT 313
US-10-339-674-904/c
; Sequence 904, Application US/10339674
; Publication No. US20030204318A1
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
; TITLE OF INVENTION: Escherichia coli K-12 MG1655 complete genome.
; FILE REFERENCE: Jim Zegeer Law Offices - 703-684-8333
; CURRENT APPLICATION NUMBER: US/10/339,674
; CURRENT FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 3537
; SOFTWARE: Proprietary
; SEQ ID NO 904
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Escherichia coli K-12 MG1655 complete genome.
; FEATURE:
; LOCATION: (899026)...(899041)
; OTHER INFORMATION: Chromosome = 1 Strand = positive ConnectronObjectNumber = 1176
US-10-339-674-904

Query Match          1.5%; Score 12.8; DB 1; Length 16;
```

Best Local Similarity 87.5%; Pred. No. 2.4e+02; Mismatches 2; Indels 0; Gaps 0;

QY 325 TGTGACTGCTGACAAA 340
Db 16 TGAGACTGATGACAAA 1

RESULT 314

US-10-339-674-905
; Sequence 905, Application US/10339674
; Publication No. US20030204318A1
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
; TITLE OF INVENTION: Escherichia coli K-12 MG1655 complete genome.
; FILE REFERENCE: Jim Zeiger Law Offices - 703-684-8333
; CURRENT APPLICATION NUMBER: US/10/339,674
; CURRENT FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 3537
; SOFTWARE: Proprietary
; SEQ ID NO 905
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Escherichia coli K-12 MG1655 complete genome.
; FEATURE:
; LOCATION: (899026)...(899041)
; OTHER INFORMATION: Chromosome = 1 Strand = negative
US-10-339-674-905

Query Match 1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.4e+02; Mismatches 2; Indels 0; Gaps 0;

QY 325 TGTGACTGCTGACAAA 340
Db 1 TGAGACTGATGACAAA 16

RESULT 315

US-10-339-674-906
; Sequence 906, Application US/10339674
; Publication No. US20030204318A1
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
; TITLE OF INVENTION: Escherichia coli K-12 MG1655 complete genome.
; FILE REFERENCE: Jim Zeiger Law Offices - 703-684-8333
; CURRENT APPLICATION NUMBER: US/10/339,674
; CURRENT FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 3537
; SOFTWARE: Proprietary
; SEQ ID NO 906
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Escherichia coli K-12 MG1655 complete genome.
; FEATURE:
; LOCATION: (899026)...(899041)
; OTHER INFORMATION: Chromosome = 1 Strand = negative
US-10-339-674-906

Query Match 1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.4e+02; Mismatches 2; Indels 0; Gaps 0;

QY 325 TGTGACTGCTGACAAA 340
Db 1 TGAGACTGATGACAAA 16

RESULT 316

US-10-138-674-5969/c
; Sequence 5969, Application US/10138674
; Publication No. US20040077565A1
; GENERAL INFORMATION:

; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel
; FILE REFERENCE: MEHB00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5969
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-5969

Query Match 1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.4e+02; Mismatches 2; Indels 0; Gaps 0;

QY 638 TGTGACTTTTTCAGAG 653
Db 16 TGTGACTTTTTCAGTG 1

RESULT 317

US-10-138-674-6103
; Sequence 6103, Application US/10138674
; Publication No. US20040077565A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel
; FILE REFERENCE: MEHB00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6103
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-6103

Query Match 1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.4e+02; Mismatches 12; Conservative 2; Indels 0; Gaps 0;

QY 424 CCATGAAAAAGCAGAT 439
Db 1 CCAUGAAAAUGCAAAU 16

RESULT 318

US-10-287-949A-5969/c
; Sequence 5969, Application US/10287949A
; Publication No. US20040102389A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel
; FILE REFERENCE: MEHB00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/287,949A

; CURRENT FILING DATE: 2003-04-11
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5969
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-287-949A-5969

Query Match 1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.4e+02;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 638 TGTGACTTTTTCAGAG 653
Db 16 TGTGACATTTTCAGT 1

RESULT 319

US-10-287-949A-6103
; Sequence 6103, Application US/10287949A
; Publication No. US20040102389A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/287,949A
; CURRENT FILING DATE: 2003-04-11
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6103
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-287-949A-6103

Query Match 1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.4e+02;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 424 CCATGAAAAGCAGAT 439
Db 1 CCAUGAAAUGCAAU 16

RESULT 320

US-10-257-017B-227623/c
; Sequence 227623, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Kurt Berlin
; APPLICANT: Christian Piepenbrock
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; TITLE OF INVENTION: methylations
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 227623
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0055504
US-10-257-017B-227623

Query Match 1.4%; Score 12.6; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.2e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 600 GATAAACATTAAA 612
Db 13 RATAAACATTAAA 1

RESULT 321

US-10-257-017B-227624
; Sequence 227624, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Kurt Berlin
; APPLICANT: Christian Piepenbrock
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; TITLE OF INVENTION: methylations
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 227624
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0055504
US-10-257-017B-227624

Query Match 1.4%; Score 12.6; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 2.2e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 600 GATAAACATTAAA 612
Db 1 RATAAACATTAAA 13

Search completed: April 14, 2005, 16:49:42
Job time : 3 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2005, 16:42:54 ; Search time 1 Seconds
(without alignments)
4.263 Million cell updates/sec

Title: US-10-672-866-3
Perfect score: 874
Sequence: 1 ctgcagctctgggtttcc.....tattaaagaatccaaattc 874

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 135 seqs, 2439 residues

Total number of hits satisfying chosen parameters: 270

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 135 summaries

Database : rge3.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	28	3.2	28	1	AR090891
2	28	3.2	28	1	AR090892
3	28	3.2	28	1	AR197926
4	28	3.2	28	1	AR197927
5	28	3.2	28	1	AR260080
6	28	3.2	28	1	AR260081
7	27.4	3.1	29	1	E06744
8	27	3.1	27	1	AX473368
9	24	2.7	24	1	AR061116
10	24	2.7	24	1	AR064690
11	24	2.7	24	1	AR528355
12	23	2.6	23	1	AX473370
13	23	2.6	23	1	AX473371
14	23	2.6	23	1	AX10079
15	23	2.6	23	1	AX10080
16	21.8	2.5	25	1	A06400
17	21.8	2.5	25	1	AR364465
18	21	2.4	21	1	BD144206
19	20.4	2.3	22	1	BD144209
20	20	2.3	21	1	AR061103
21	20	2.3	21	1	AR064682
22	20	2.3	21	1	I04213
23	20	2.3	21	1	I06878
24	20	2.3	21	1	AR528347
25	19.8	2.3	21	1	BD174099
26	19	2.2	19	1	BD144208
27	17	1.9	17	1	AX671956
28	17	1.9	17	1	AX673655
29	17	1.9	17	1	AX730213
30	17	1.9	17	1	AX733568
31	17	1.9	17	1	AX736487
32	17	1.9	17	1	AX739220
33	17	1.9	19	1	BD174097

C 34	17	1.9	21	1	AR061105
C 35	17	1.9	21	1	AR064684
C 36	17	1.9	21	1	AR528349
C 37	16.8	1.9	20	1	AR338227
C 38	16.8	1.9	21	1	AR061108
C 39	16.8	1.9	21	1	AR064687
C 40	16.8	1.9	21	1	AR528352
C 41	16	1.8	16	1	I04212
C 42	16	1.8	16	1	I06877
C 43	16	1.8	17	1	AX081870
C 44	16	1.8	17	1	AX737712
C 45	16	1.8	17	1	AX737721
C 46	16	1.8	18	1	AX378471
C 47	16	1.8	19	1	AR225282
C 48	15.6	1.8	17	1	AX706659
C 49	15.6	1.8	17	1	AX707589
C 50	15.4	1.8	17	1	BD255580
C 51	15.4	1.8	17	1	BD255581
C 52	15.4	1.8	17	1	I06872
C 53	15	1.7	15	1	CQ821402
C 54	15	1.7	15	1	CQ821408
C 55	15	1.7	17	1	AX081871
C 56	15	1.7	17	1	AX706658
C 57	15	1.7	17	1	AX707588
C 58	15	1.7	17	1	AX732679
C 59	14.4	1.6	17	1	A16196
C 60	14.4	1.6	17	1	A16242
C 61	14.4	1.6	17	1	BD203207
C 62	14.4	1.6	17	1	BD255579
C 63	14.4	1.6	17	1	BD255582
C 64	14.4	1.6	17	1	BD257636
C 65	14.4	1.6	17	1	I23680
C 66	14.4	1.6	17	1	I23682
C 67	14.4	1.6	17	1	AR433547
C 68	14.4	1.6	17	1	AR433549
C 69	14.4	1.6	17	1	AX216792
C 70	14.4	1.6	17	1	AX216884
C 71	14.4	1.6	17	1	AX701183
C 72	14.4	1.6	17	1	AX706656
C 73	14.4	1.6	17	1	AX706657
C 74	14.4	1.6	17	1	AX707586
C 75	14.4	1.6	17	1	AX707587
C 76	14.4	1.6	17	1	AX731809
C 77	14.4	1.6	17	1	AX733720
C 78	14.4	1.6	17	1	AX735175
C 79	14.4	1.6	17	1	AX761994
C 80	14.4	1.6	18	1	CQ784352
C 81	14	1.6	17	1	AR046169
C 82	14	1.6	17	1	AR046171
C 83	14	1.6	17	1	AR046173
C 84	14	1.6	17	1	I53221
C 85	14	1.6	17	1	I53223
C 86	14	1.6	17	1	I53225
C 87	14	1.6	17	1	AX215042
C 88	14	1.6	17	1	AX215907
C 89	14	1.6	17	1	AX216554
C 90	13.8	1.6	17	1	BD257133
C 91	13.8	1.6	17	1	BD257134
C 92	13.8	1.6	17	1	BD257135
C 93	13.8	1.6	17	1	CQ624220
C 94	13.8	1.6	17	1	I06874
C 95	13.8	1.6	17	1	AR190462
C 96	13.8	1.6	17	1	AR325385
C 97	13.8	1.6	17	1	AR327698
C 98	13.8	1.6	17	1	AR329394
C 99	13.8	1.6	17	1	AR465283
C 100	13.8	1.6	17	1	AX081872
C 101	13.8	1.6	17	1	AX215655
C 102	13.8	1.6	17	1	AX265751
C 103	13.8	1.6	17	1	AX265752
C 104	13.8	1.6	17	1	AX691936
C 105	13.8	1.6	17	1	AX782232
C 106	13.4	1.5	15	1	CQ821404

ACCESSION:AR061105	
ACCESSION:AR064684	
ACCESSION:AR528349	
ACCESSION:AR338227	
ACCESSION:AR061108	
ACCESSION:AR064687	
ACCESSION:AR528352	
ACCESSION:I04212	
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ACCESSION:CQ821408	
ACCESSION:AX081871	
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ACCESSION:AX732679	
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ACCESSION:BD257133	
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ACCESSION:AX691936	
ACCESSION:AX782232	
ACCESSION:CQ821404	

107 13.4 1.5 1 CQ821409
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121 12.8 1.5 16 CQ786469
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125 12.8 1.5 16 CQ786469
126 12.4 1.4 14 CQ821410
127 12.4 1.4 14 CQ821410
128 12.4 1.4 14 CQ821410
129 12.4 1.4 15 I35229
130 12 1.4 14 AX085048
131 12 1.4 14 CQ828340
132 12 1.4 15 I39110
133 12 1.4 15 I80907
134 12 1.4 15 AX377090
135 12 1.4 15 AX635353

ALIGNMENTS

RESULT 1
AR090891 28 bp DNA linear PAT 07-SEP-2000
LOCUS Sequence 1011 from patent US 5994076.
DEFINITION AR090891
ACCESSION AR090891
VERSION AR090891.1 GI:10017646
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 28)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 5994076-A 1011 30-NOV-1999;
FEATURES Location/Qualifiers
source 1..28
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 106 AGTCAGGCGCATCATCAATTCGAGCAG 133
|||||
Db 1 AGTCAGGCGCATCATCAATTCGAGCAG 28

RESULT 2
AR090892/c 28 bp DNA linear PAT 07-SEP-2000
LOCUS Sequence 1012 from patent US 5994076.
DEFINITION AR090892
ACCESSION AR090892
VERSION AR090892.1 GI:10017647
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 28)

AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 5994076-A 1012 30-NOV-1999;
FEATURES Location/Qualifiers
source 1..28
/organism="unknown"
/mol_type="unassigned DNA"
Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 376 GATCTCACTCTCAGGAGCACCATTGCATC 403
|||||
Db 28 GATCTCACTCTCAGGAGCACCATTGCATC 1
RESULT 3
AR197926 28 bp DNA linear PAT 20-APR-2002
LOCUS Sequence 1011 from patent US 6352829.
DEFINITION AR197926
ACCESSION AR197926
VERSION AR197926.1 GI:20247775
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 28)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 6352829-A 1011 05-MAR-2002;
FEATURES Location/Qualifiers
source 1..28
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 106 AGTCAGGCGCATCATCAATTCGAGCAG 133
|||||
Db 1 AGTCAGGCGCATCATCAATTCGAGCAG 28
RESULT 4
AR197927/c 28 bp DNA linear PAT 20-APR-2002
LOCUS Sequence 1012 from patent US 6352829.
DEFINITION AR197927
ACCESSION AR197927
VERSION AR197927.1 GI:20247776
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 28)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 6352829-A 1012 05-MAR-2002;
FEATURES Location/Qualifiers
source 1..28
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 3.2%; Score 28; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 376 GATCTCACTCTCAGGAGCACCATTGCATC 403
|||||
Db 28 GATCTCACTCTCAGGAGCACCATTGCATC 1

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RESULT 5
AR260080
LOCUS       AR260080               28 bp    DNA             linear      PAT 20-DEC-2002
DEFINITION   Sequence 1011 from patent US 6489455.
ACCESSION   AR260080
VERSION     AR260080.1  GI:27310591
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 28)
AUTHORS     Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE       Methods of assaying differential expression
JOURNAL     Patent: US 6489455-A 1011 03-DEC-2002;
FEATURES    Location/Qualifiers
             source
             1..28
             /organism="unknown"
             /mol_type="genomic DNA"

Query Match
Best Local Similarity 3.2%; Score 28; DB 1; Length 28;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 AGTCAGGCGCATCATCAATTTCAGCAG 133
Db 1 AGTCAGGCGCATCATCAATTTCAGCAG 28

RESULT 6
AR260081/c
LOCUS       AR260081               28 bp    DNA             linear      PAT 20-DEC-2002
DEFINITION   Sequence 1012 from patent US 6489455.
ACCESSION   AR260081
VERSION     AR260081.1  GI:27310592
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 28)
AUTHORS     Chenchik,A., Jokhadze,G. and Bibilashvilli,R.
TITLE       Methods of assaying differential expression
JOURNAL     Patent: US 6489455-A 1012 03-DEC-2002;
FEATURES    Location/Qualifiers
             source
             1..28
             /organism="unknown"
             /mol_type="genomic DNA"

Query Match
Best Local Similarity 3.2%; Score 28; DB 1; Length 28;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 376 GATCTCACTCTCAGGAGACCATTCGATC 403
Db 28 GATCTCACTCTCAGGAGACCATTCGATC 1

RESULT 7
E06744
LOCUS       E06744               29 bp    RNA             linear      PAT 29-SEP-1997
DEFINITION   CDNA fragment.
ACCESSION   E06744
VERSION     E06744.1  GI:2174926
KEYWORDS    JP 1994046860-A/2.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
REFERENCE   1 (bases 1 to 29)
AUTHORS     Suenaga,Y., Morino,T., Morita,M., Seiya,K. and Nakamura,T.
TITLE       NEW DNA CAPABLE OF CODING HUMAN SOD AND MICROORGANISM HAVING THE
JOURNAL     Patent: JP 1994046860-A 2 22-FEB-1994;
COMMENT     NIPPON KAYAKU CO LTD
OS          Homo sapiens

PN JP 1994046860-A/2
PD 22-FEB-1994
PF 25-SEP-1992 JP 1992279193
PI SUKENAGA YOSHIKAZU, MORINO TOMIO, MORITA MAKOTO, SEYA KENJI,
PI NAKAMURA TSUNERO
PC C12N15/53, C12N1/21//C12N9/02, (C12N1/21, C12R1:19), (C12N9/02, PC
C12R1:19);
CC strandedness: Double;
CC topology: Linear;
CC hypothetical: No;
CC anti-sense: No;
CC *source: tissue type=placenta;
FH Key _Location/Qualifiers
FT 5'UTR 1..29.
FEATURES    Location/Qualifiers
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             1..29
             /organism="Homo sapiens"
             /mol_type="genomic RNA"
             /db_xref="taxon:9606"

Query Match
Best Local Similarity 3.1%; Score 27.4; DB 1; Length 29;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 39 AGGACCTCGCGTGGCCTAGCGAGTTATG 67
Db 1 AGGACCACCGCGTGGCCTAGCGAGTTATG 29

RESULT 8
AX473368/c
LOCUS       AX473368               27 bp    DNA             linear      PAT 09-AUG-2002
DEFINITION   Sequence 1 from Patent WO0203979.
ACCESSION   AX473368
VERSION     AX473368.1  GI:22207996
KEYWORDS
SOURCE      synthetic construct
ORGANISM    synthetic construct
REFERENCE   1
AUTHORS     Huang,P., Plunkett,W.K. and Feng,L.
TITLE       Cancer therapeutics involving the administration of
JOURNAL     2-methoxyestradiol and an agent that increases intracellular
FEATURES    superoxide anion
             Location/Qualifiers
             source
             1..27
             /organism="synthetic construct"
             /mol_type="unassigned DNA"
             /db_xref="taxon:32630"
             /note="Synthetic Primer"

Query Match
Best Local Similarity 3.1%; Score 27; DB 1; Length 27;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 61 AGTTATGGCGACGAGCGCGTGTGCGT 87
Db 27 AGTTATGGCGACGAGCGCGTGTGCGT 1

RESULT 9
AR061116/c
LOCUS       AR061116               24 bp    DNA             linear      PAT 29-SEP-1999
DEFINITION   Sequence 18 from patent US 5843641.
ACCESSION   AR061116
VERSION     AR061116.1  GI:5988807
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
COMMENT     Unclassified.
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REFERENCE 1 (bases 1 to 24)
AUTHORS Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE Methods for the diagnosis, of familial amyotrophic lateral
        sclerosis
JOURNAL Patent: US 5843641-A 18 01-DEC-1998;
FEATURES   Location/Qualifiers
           1..24
           /organism="unknown"
           /mol_type="unassigned DNA"

Query Match      2.7%; Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACCTCATCTGTTATCCTGC 579
Db 24 CCCTTAACCTCATCTGTTATCCTGC 1

RESULT 10
AR064690/c
LOCUS AR064690 24 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 13 from patent US 5849290.
ACCESSION AR064690
VERSION AR064690.1 GI:5994906
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 24)
AUTHORS Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE Compounds and methods for the diagnosis, treatment and prevention
        of diseases of cell death
JOURNAL Patent: US 5849290-A 13 15-DEC-1998;
FEATURES   Location/Qualifiers
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           /organism="unknown"
           /mol_type="unassigned DNA"

Query Match      2.7%; Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACCTCATCTGTTATCCTGC 579
Db 24 CCCTTAACCTCATCTGTTATCCTGC 1

RESULT 11
AR528355/c
LOCUS AR528355 24 bp DNA linear PAT 08-OCT-2004
DEFINITION Sequence 13 from patent US 6723893.
ACCESSION AR528355
VERSION AR528355.1 GI:53916383
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 24)
AUTHORS Brown,R., Horvitz,H.R. and Rosen,D.R.
TITLE Mice having a mutant SOD-1-encoding transgene
JOURNAL Patent: US 6723893-A 13 20-APR-2004;
FEATURES   Location/Qualifiers
           1..24
           /organism="unknown"
           /mol_type="genomic DNA"

Query Match      2.7%; Score 24; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACCTCATCTGTTATCCTGC 579
Db 24 CCCTTAACCTCATCTGTTATCCTGC 1

REFERENCE 1 (bases 1 to 24)
AUTHORS Brown,R., Plunkett,W.K. and Feng,L.
TITLE Cancer therapeutics involving the administration of
        2-methoxyestradiol and an agent that increases intracellular
        superoxide anion
JOURNAL Patent: WO 0203979-A 3 17-JAN-2002;
FEATURES   Location/Qualifiers
           1..23
           /organism="synthetic construct"
           /mol_type="unassigned DNA"
           /db_xref="taxon:32630"
           /note="Synthetic Primer"

Query Match      2.6%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 ACGAAGGCGCGTGTGCGTCTGAA 93
Db 1 ACGAAGGCGCGTGTGCGTCTGAA 23

RESULT 13
AX473371/c
LOCUS AX473371 23 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 4 from Patent WO0203979.
ACCESSION AX473371
VERSION AX473371.1 GI:22207999
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Huang,P., Plunkett,W.K. and Feng,L.
TITLE Cancer therapeutics involving the administration of
        2-methoxyestradiol and an agent that increases intracellular
        superoxide anion
JOURNAL Patent: WO 0203979-A 4 17-JAN-2002;
FEATURES   Location/Qualifiers
           1..23
           /organism="synthetic construct"
           /mol_type="unassigned DNA"
           /db_xref="taxon:32630"
           /note="Synthetic Primer"

Query Match      2.6%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 486 CTGGAAGTCGTTGGCTTGCTGT 508
Db 23 CTGGAAGTCGTTGGCTTGCTGT 1

RESULT 14
AX710079
LOCUS AX710079 23 bp DNA linear PAT 10-APR-2003
DEFINITION Sequence 5 from Patent WO03016527.
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ACCESSION AX710079
VERSION AX710079.1 GI:29786676
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Pincemail, J., Piette, J. and Marechal, D.
TITLE Process for the detection of oxidative stress and kit for its
implementation
JOURNAL Patent: WO 03016527-A 5 27-FEB-2003;
Probiol SA (BE)
FEATURES
source
1. .23
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 2.6%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 321 GCAATGCTGCTGCTGCAAGAT 343
|||||
Db 1 GCAATGCTGCTGCTGCAAGAT 23
RESULT 15
AX710080/c
LOCUS AX710080 23 bp DNA linear PAT 10-APR-2003
DEFINITION Sequence 6 from Patent WO03016527.
ACCESSION AX710080
VERSION AX710080.1 GI:29786677
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Pincemail, J., Piette, J. and Marechal, D.
TITLE Process for the detection of oxidative stress and kit for its
implementation
JOURNAL Patent: WO 03016527-A 6 27-FEB-2003;
Probiol SA (BE)
FEATURES
source
1. .23
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 2.6%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 383 CTCTCAGGAGACCATTCATCAT 405
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Db 23 CTCTCAGGAGACCATTCATCAT 1
RESULT 16
A06400/c
LOCUS A06400 25 bp DNA linear PAT 18-JUN-1993
DEFINITION Oligonucleotide primer.
ACCESSION A06400
VERSION A06400.1 GI:412849
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS (bases 1 to 25)
JOURNAL Patent: WO 900605-A 8 25-JAN-1990;

FEATURES
source
1. .25
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
Query Match 2.5%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 23;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 418 GGTGGTCCATGAAAAGCAGATGAC 442
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Db 25 GGTGGTCCATGAAAAGCAGATGAC 1
RESULT 17
AR364465/c
LOCUS AR364465 25 bp DNA linear PAT 03-SEP-2003
DEFINITION Sequence 19 from patent US 5290690.
ACCESSION AR364465
VERSION AR364465.1 GI:34427112
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 25)
AUTHORS Mrabet, N., Lasters, I., Stanssens, P., Matthysens, G., Wodak, S. and
Quax, W. J.
TITLE Methods and means for controlling the stability of proteins
JOURNAL Patent: US 5290690-A 19 01-MAR-1994;
FEATURES
source
1. .25
/organism="unknown"
/mol_type="genomic DNA"
Query Match 2.5%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 23;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 418 GGTGGTCCATGAAAAGCAGATGAC 442
|||||
Db 25 GGTGGTCCATGAAAAGCAGATGAC 1
RESULT 18
BD144206/c
LOCUS BD144206 21 bp DNA linear PAT 17-JAN-2003
DEFINITION ALS model rat.
ACCESSION BD144206
VERSION BD144206.1 GI:27849964
KEYWORDS JP 2002142610-A/2.
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 21)
AUTHORS Aoki, M., Ito, Y., Miyoshi, I. and Kasai, N.
TITLE ALS model rat
JOURNAL Patent: JP 2002142610-A 2 21-MAY-2002;
TOHOKU TECHNO ARCH CO LTD
COMMENT OS Artificial Sequence
FN JP 2002142610-A/2
PD 21-MAY-2002
PF 07-NOV-2000 JP 2000339567
PI MASASHI AOKI, YASUHIRO ITOYAMA, ICHIRO MIYOSHI, NORIYUKI KASAI PC
A01K67/027, A61K45/00, A61P25/02, C12N5/10, C12N15/09, C12N5/10, PC
C12R1:91),
PC C12N5/00, C12N15/00, (C12N5/00, C12R1:91)
CC Description of Artificial Sequence: Oligonucleotide to act as a
primer for
CC PCR
CC FH
FT source
1. .21
Location/Qualifiers

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FT          Location/Qualifiers
FEATURES
    source
        1..21
            /organism="Artificial Sequence".
            /organism="synthetic construct"
            /mol_type="genomic DNA"
            /db_xref="taxon:32630"

Query Match
Best Local Similarity 2.4%; Score 21; DB 1; Length 21;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 564 TCATCTGTTATCTCTAGCT 584
Db 21 TCATCTGTTATCTCTAGCT 1

RESULT 19
BD144209/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
    1 (bases 1 to 22)
AUTHORS
    Aoki,M., Itoyama,Y., Miyoshi,I. and Kasai,N.
TITLE
    ALS model rat
JOURNAL
    Patent: JP 2002142610-A 5 21-MAY-2002;
    TOHOKU TECHNO ARCH CO LTD
COMMENT
    OS Artificial Sequence
    PN JP 2002142610-A/5
    PD 21-MAY-2002
    PF 07-NOV-2000 JP 2000339567
    PI MASASHI AOKI,YASUHIITO ITOYAMA,ICHIRO MIYOSHI,NORIYUKI KASAI PC
    A01K67/027,A61K45/00,A61P25/02,C12N5/10,C12N15/09/(C12N5/10, PC
    C12R1:91),
    PC C12N5/00,C12N15/00,(C12N5/00,C12R1:91)
    CC Description of Artificial Sequence:Oligonucleotide to act as a
        primer for
CC PCR
CC Key
FH Key
FT source
FT          Location/Qualifiers
FEATURES
    source
        1..22
            /organism="Artificial Sequence".
            /organism="synthetic construct"
            /mol_type="genomic DNA"
            /db_xref="taxon:32630"

Query Match
Best Local Similarity 2.3%; Score 20.4; DB 1; Length 22;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 193 GCATGGATTCATGTTTCATGAG 214
Db 22 GCATGGATTCATGTTTCATGAG 1

RESULT 20
AR061103/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
    1 (bases 1 to 21)
AUTHORS
    Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE
    ALS model rat
JOURNAL
    Patent: US 5843641-A 5 01-DEC-1998;
    Location/Qualifiers
FEATURES
    source
        1..21
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match
Best Local Similarity 2.3%; Score 20; DB 1; Length 21;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 118 CATCAATTTTCGAGCAGAGG 137
Db 21 CATCAATTTTCGAGCAGAGG 2

RESULT 21
AR064682/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
    1 (bases 1 to 21)
AUTHORS
    Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE
    Compounds and methods for the diagnosis, treatment and prevention
    of diseases of cell death
JOURNAL
    Patent: US 5849290-A 5 15-DEC-1998;
    Location/Qualifiers
FEATURES
    source
        1..21
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match
Best Local Similarity 2.3%; Score 20; DB 1; Length 21;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 118 CATCAATTTTCGAGCAGAGG 137
Db 21 CATCAATTTTCGAGCAGAGG 2

RESULT 22
I04213
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
    1 (bases 1 to 21)
AUTHORS
    Hallewell,R.A. and Mullenbach,G.T.
TITLE
    Superoxide dismutase cloning and expression in microorganisms
JOURNAL
    Patent: EP 0138111-A1 9 24-APR-1985;
    Location/Qualifiers
FEATURES
    source
        1..21
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match
Best Local Similarity 2.3%; Score 20; DB 1; Length 21;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 723 CTCAGTTAAATGTCGTGTT 742
Db 1 CTCAGTTAAATGTCGTGTT 20

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RESULT 23
I06878
LOCUS       I06878             21 bp    DNA             linear      PAT 02-DEC-1994
DEFINITION   Sequence 9 from Patent EP 0340805.
ACCESSION    I06878
VERSION      I06878.1   GI:589855
KEYWORDS     Unknown.
SOURCE       Unknown.
ORGANISM     Unclassified.
REFERENCE    1 (bases 1 to 21)
AUTHORS      Hallelwell,R.A. and Mullenbach,G.T.
TITLE        Superoxide dismutase and expression in microorganisms
JOURNAL      Patent: EP 0340805-A1 9 08-NOV-1989;
FEATURES     Location/Qualifiers
             source
               1..21
               /organism="unknown"
               /mol_type="unassigned DNA"

Query Match      2.3%; Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 723 CTCAGTTAAATGCTCTGTTT 742
Db 1 CTCAGTTAAATGCTCTGTTT 20

RESULT 24
AR528347/c
LOCUS       AR528347             21 bp    DNA             linear      PAT 08-OCT-2004
DEFINITION   Sequence 5 from patent US 6723893.
ACCESSION    AR528347
VERSION      AR528347.1   GI:53916375
KEYWORDS     Unknown.
SOURCE       Unknown.
ORGANISM     Unclassified.
REFERENCE    1 (bases 1 to 21)
AUTHORS      Brown,R., Horvitz,H.R. and Rosen,D.R.
TITLE        Mice having a mutant SOD-1-encoding transgene
JOURNAL      Patent: US 6723893-A 5 20-APR-2004;
FEATURES     Location/Qualifiers
             source
               1..21
               /organism="unknown"
               /mol_type="genomic DNA"

Query Match      2.3%; Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 118 CATCAATTCGACGACGAGG 137
Db 21 CATCAATTCGACGACGAGG 2

RESULT 25
BD174099
LOCUS       BD174099             23 bp    DNA             linear      PAT 18-FEB-2003
DEFINITION   Method of treating disease in association with decrease in the
              expression of AOP-1 gene or AOP-1 and remedies for the disease.
ACCESSION    BD174099
VERSION      BD174099.1   GI:28415434
KEYWORDS     WO 02064169-A/12.
SOURCE       synthetic construct
ORGANISM     other sequences; artificial sequences.
REFERENCE    1 (bases 1 to 23)
AUTHORS      Hattori,F., Sugimura,K. and Furuya,M.
TITLE        Method of treating disease in association with decrease in the
              expression of AOP-1 gene or AOP-1 and remedies for the disease
JOURNAL      Patent: WO 02064169-A 12 22-AUG-2002;

SUNTORY LTD,SUNTORY BIOMEDICAL RESEACH LTD,FUMIYUKI HATTORI,
KEIJIRO SUGIMURA,MAYUMI FURUYA
OS Artificial Sequence
PN WO 02064169-A/12
PD 22-AUG-2002
PF 18-FEB-2002 WO 2002JP001358
PR 16-FEB-2001 JP 01P 041003
PI FUMIYUKI HATTORI,KEIJIRO SUGIMURA,MAYUMI FURUYA PC
A61K48/00,A61K31/711,A61K38/17,A61P9/02,A61P9/10,A61P29/00, PC
A61P19/02,
PC A61P25/00,A61P1/16,A61P13/12,G01N33/15,G01N33/50//C12N15/12 CC
Method of treating disease in association
with decrease in the
CC expression
CC of AOP-1 gene or AOP-1 and remedies for the disease FH Key
Location/Qualifiers
FT source 1..23
FT /organism='Artificial Sequence'.

FEATURES
source
1..23
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match      2.3%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 33;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 310 TGGAGACTTGGGCAATGTGACTG 332
Db 1 TGGAGACTTGGGCAATGTGCTG 23

RESULT 26
BD144208/c
LOCUS       BD144208             19 bp    DNA             linear      PAT 17-JAN-2003
DEFINITION   ALS model rat.
ACCESSION    BD144208
VERSION      BD144208.1   GI:27849966
KEYWORDS     JP 2002142610-A/4.
SOURCE       synthetic construct
ORGANISM     other sequences; artificial sequences.
REFERENCE    1 (bases 1 to 19)
AUTHORS      Aoki,M., Itoyama,Y., Miyoshi,I. and Kasai,N.
TITLE        ALS model rat
JOURNAL      Patent: JP 2002142610-A 4 21-MAY-2002;
              TOHOKU TECHNO ARCH CO LTD
COMMENT      OS Artificial Sequence
              PN JP 2002142610-A/4
              PD 21-MAY-2002
              PF 07-NOV-2000 JP 2000339567
              PI MASASHI AOKI,YASUHIITO ITOYAMA,ICHIRO MIYOSHI,NORIYUKI KASAI PC
              A01K67/027,A61K45/00,A61P25/02,C12N5/10,C12N15/09//C12N5/10, PC
              C12R1:91),
              PC C12N5/00,C12N15/00,(C12N5/00,C12R1:91)
              CC Description of Artificial Sequence:Oligonucleotide to act as a

CC primer for
CC PCR
FH Key Location/Qualifiers
FT source 1..19
FT /organism='Artificial Sequence'.

FEATURES
source
1..19
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match      2.2%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 547 GTCAGGCGCCCTTAATC 565
Db 19 GTCAGGCGCCCTTAATC 1

RESULT 27
LOCUS AX671956 17 bp DNA linear PAT 27-MAR-2003
DEFINITION Sequence 401 from Patent WO03004526.
ACCESSION AX671956
VERSION AX671956.1 GI:29330304
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Anson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and their use as
medicines
JOURNAL Patent: WO 03004526-A 401 16-JAN-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1..17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.9%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 706
Db 1 GATCACTTGGAGATT 17

RESULT 28
LOCUS AX673655 17 bp DNA linear PAT 27-MAR-2003
DEFINITION Sequence 2100 from Patent WO03004526.
ACCESSION AX673655
VERSION AX673655.1 GI:29332003
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Anson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and their use as
medicines
JOURNAL Patent: WO 03004526-A 2100 16-JAN-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1..17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.9%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 517 GATCGCCCAATAAAT 533
Db 1 GATCGCCCAATAAAT 17

RESULT 29
LOCUS AX730213 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 1847 from Patent WO03025175.
ACCESSION AX730213
VERSION AX730213.1 GI:30509556
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Anson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 1847 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1..17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.9%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 363 TTGAAGATTCTGTGATC 379
Db 17 TTGAAGATTCTGTGATC 1

RESULT 30
LOCUS AX733568 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 5202 from Patent WO03025175.
ACCESSION AX733568
VERSION AX733568.1 GI:30512911
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Anson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 5202 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.9%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 706
Db 1 GATCACTTGGAGATT 17

RESULT 31
LOCUS AX736487 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 2077 from Patent WO03025177.
ACCESSION AX736487
VERSION AX736487.1 GI:30515775
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens

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REFERENCE 1
AUTHORS Telerman,A., Anson,R. and Tuijinder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
        reversion, apoptosis and/or resistance to viruses and the use
        thereof as medicaments
JOURNAL Patent: WO 03025177-A 2077 27-MAR-2003;
        Molecular Engines Laboratories (FR)
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.9%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 706
Db 1 GATCACTTGGAGATT 17

RESULT 32
AX739220
LOCUS AX739220 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 4810 from Patent WO03025177.
ACCESSION AX739220
VERSION AX739220.1 GI:30518517
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Telerman,A., Anson,R. and Tuijinder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
        reversion, apoptosis and/or resistance to viruses and the use
        thereof as medicaments
JOURNAL Patent: WO 03025177-A 4810 27-MAR-2003;
        Molecular Engines Laboratories (FR)
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.9%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 517 GATCGCCCAATAACAT 533
Db 1 GATCGCCCAATAACAT 17

RESULT 33
BD174097
LOCUS BD174097 19 bp DNA linear PAT 18-FEB-2003
DEFINITION Method of treating disease in association with decrease in the
        expression of AOP-1 gene, or AOP-1 and remedies for the disease.
ACCESSION BD174097
VERSION BD174097.1 GI:28415432
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 19)
AUTHORS Hattori,F., Sugimura,K. and Furuya,M.
TITLE Method of treating disease in association with decrease in the
        expression of AOP-1 gene or AOP-1 and remedies for the disease
        Patent: WO 02064169-A 10 22-AUG-2002;
JOURNAL

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SUNTORY LTD, SUNTORY BIOMEDICAL RESEACH LTD, FUMIYUKI HATTORI,
KEIJIRO SUGIMURA, MAYUMI FURUYA
OS Artificial Sequence
PN WO 02064169-A/10
PD 22-AUG-2002
PF 18-FEB-2002 WO 2002JP001358
PR 18-FEB-2001 JP 01P 041003
PI FUMIYUKI HATTORI, KEIJIRO SUGIMURA, MAYUMI FURUYA PC
A61K48/00, A61K31/711, A61K38/17, A61P9/02, A61P9/10, A61P29/00, PC
A61P19/02,
PC A61P25/00, A61P1/16, A61P13/12, G01N33/15, G01N33/50//C12N15/12 CC
Method of treating disease in association
with decrease in the
expression
CC of AOP-1 gene or AOP-1 and remedies for the disease PH Key
FT source 1..19
FT Location/Qualifiers
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1..19
Location/Qualifiers
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/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match 1.9%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 292 GGATGAAGAGAGGCATG 308
Db 3 GGATGAAGAGAGGCATG 19

RESULT 34
AR061105/c
LOCUS AR061105 21 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 7 from patent US 5843641.
ACCESSION AR061105
VERSION AR061105.1 GI:5988796
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)
AUTHORS Brown,R., Horvitz,H. Robert. and Rosen,D.R.
TITLE Methods for the daignosis, of familial amyotrophic lateral
        sclerosis
JOURNAL Patent: US 5843641-A 7 01-DEC-1998;
FEATURES
source
1..21
Location/Qualifiers
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 218 GGAGATAATACAGCAGG 234
Db 21 GGAGATAATACAGCAGG 5

RESULT 35
AR064684/c
LOCUS AR064684 21 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 7 from patent US 5849290.
ACCESSION AR064684
VERSION AR064684.1 GI:5994900
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)

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AUTHORS Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE Compounds and methods for the diagnosis, treatment and prevention
of diseases of cell death
JOURNAL Patent: US 5849290-A 7 15-DEC-1998;
FEATURES Location/Qualifiers
source 1..21
/organism="unknown"
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Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 218 GGAGATAATACACGAG 234

Db 21 GGAGATAATACACGAG 5

RESULT 36
AR528349/c
LOCUS AR528349 21 bp DNA linear PAT 08-OCT-2004
DEFINITION Sequence 7 from patent US 6723893.
ACCESSION AR528349
VERSION AR528349.1 GI:53916377
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)
AUTHORS Brown,R., Horvitz,H.R. and Rosen,D.R.
TITLE Mice having a mutant SOD-1-encoding transgene
JOURNAL Patent: US 6723893-A 7 20-APR-2004;
FEATURES Location/Qualifiers
source 1..21
/organism="unknown"
/mol_type="genomic DNA"

Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 218 GGAGATAATACACGAG 234

Db 21 GGAGATAATACACGAG 5

RESULT 37
AR338227/c
LOCUS AR338227 20 bp DNA linear PAT 17-AUG-2003
DEFINITION Sequence 48 from patent US 6569618.
ACCESSION AR338227
VERSION AR338227.1 GI:33724978
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Yasue,H. and Yoshimura,M.
TITLE Diagnosis of diseases associated with coronary twitching
JOURNAL Patent: US 6569618-A 48 27-MAY-2003;
FEATURES Location/Qualifiers
source 1..20
/organism="unknown"
/mol_type="genomic DNA"

Query Match 1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 168 GCATTAAGGACTGACTGAA 187

Db 20 GCACTAAGGACTGCTGAA 1

RESULT 38
AR061108
LOCUS AR061108 21 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 10 from patent US 5843641.
ACCESSION AR061108
VERSION AR061108.1 GI:5988799
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)
AUTHORS Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE Methods for the daignosis, of familial amyotrophic lateral
sclerosis
JOURNAL Patent: US 5843641-A 10 01-DEC-1998;
FEATURES Location/Qualifiers
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/mol_type="unassigned DNA"

Query Match 1.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317

Db 2 ATATAGGCATGTTGGAGACT 21

RESULT 39
AR064687
LOCUS AR064687 21 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 10 from patent US 5849290.
ACCESSION AR064687
VERSION AR064687.1 GI:5994903
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)
AUTHORS Brown,R., Horvitz,H.Robert. and Rosen,D.R.
TITLE Compounds and methods for the diagnosis, treatment and prevention
of diseases of cell death
JOURNAL Patent: US 5849290-A 10 15-DEC-1998;
FEATURES Location/Qualifiers
source 1..21
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 1.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317

Db 2 ATATAGGCATGTTGGAGACT 21

RESULT 40
AR528352
LOCUS AR528352 21 bp DNA linear PAT 08-OCT-2004
DEFINITION Sequence 10 from patent US 6723893.
ACCESSION AR528352
VERSION AR528352.1 GI:53916380
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)
AUTHORS Brown,R., Horvitz,H.R. and Rosen,D.R.
TITLE Mice having a mutant SOD-1-encoding transgene
JOURNAL Patent: US 6723893-A 10 20-APR-2004;

Query Match 1.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317

Db 2 ATATAGGCATGTTGGAGACT 21

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FEATURES
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Best Local Similarity 90.0%; Pred. No. 55;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCGATGTTGGAGACT 317
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Db 2 ATATAGGCGATGTTGGAGACT 21

RESULT 41
LOCUS I04212/c
DEFINITION Sequence 8 from Patent EP 0138111.
ACCESSION I04212
VERSION I04212.1 GI:591829
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
  1 (bases 1 to 16)
  Hallewell,R.A. and Mullenbach,G.T.
  TITLE Superoxide dismutase cloning and expression in microorganisms
  JOURNAL Patent: EP 0138111-A1 8 24-APR-1985;
FEATURES
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  1.8%; Score 16; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 157 GGTGTGGGGAAGCATT 172
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Db 16 GGTGTGGGGAAGCATT 1

RESULT 42
LOCUS I06877/c
DEFINITION Sequence 8 from Patent EP 0340805.
ACCESSION I06877
VERSION I06877.1 GI:599854
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
  1 (bases 1 to 16)
  Hallewell,R.A. and Mullenbach,G.T.
  TITLE Superoxide dismutase and expression in microorganisms
  JOURNAL Patent: EP 0340805-A1 8 08-NOV-1989;
FEATURES
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Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 157 GGTGTGGGGAAGCATT 172
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Db 16 GGTGTGGGGAAGCATT 1

RESULT 43
LOCUS AX081870/c
DEFINITION Sequence 8 from Patent EP 0340805.
ACCESSION AX081870
VERSION AX081870.1 GI:591829
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
  1 (bases 1 to 16)
  Hallewell,R.A. and Mullenbach,G.T.
  TITLE Superoxide dismutase and expression in microorganisms
  JOURNAL Patent: EP 0340805-A1 8 08-NOV-1989;
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QY 157 GGTGTGGGGAAGCATT 172
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Db 16 GGTGTGGGGAAGCATT 1

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DEFINITION Sequence 114 from Patent WO0109183.
ACCESSION AX081870
VERSION AX081870.1 GI:13170677
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
  1 Brinkmann,U., Hoffmeyer,S., Eichelbaum,M. and Roots,I.
  TITLE Polymorphisms in the human mdr-1 gene and their use in diagnostic
  and therapeutic applications
  JOURNAL Patent: WO 0109183-A 114 08-FEB-2001;
  EPIDAUROS AG Biotechnologie Aktiengesellschaft (DE)
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Query Match
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Best Local Similarity 100.0%; Pred. No. 52;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
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Db 16 GCAATGTGACTGCTGA 1

RESULT 44
LOCUS AX737712
DEFINITION Sequence 3302 from Patent WO03025177.
ACCESSION AX737712
VERSION AX737712.1 GI:30517000
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
  1 Telerman,A., Anson,R. and Tuijinder,M.
  TITLE Sequences involved in phenomena of tumour suppression, tumour
  reversion, apoptosis and/or resistance to viruses and the use
  thereof as medicaments
  JOURNAL Patent: WO 03025177-A 3302 27-MAR-2003;
  Molecular Engines Laboratories (FR)
FEATURES
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        /mol_type="unassigned DNA"
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Best Local Similarity 100.0%; Pred. No. 52;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 705
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Db 1 GATCACTTGGAGATT 16

RESULT 45
LOCUS AX737721
DEFINITION Sequence 3311 from Patent WO03025177.
ACCESSION AX737721
VERSION AX737721.1 GI:30517009
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
  1 Telerman,A., Anson,R. and Tuijinder,M.
  TITLE Sequences involved in phenomena of tumour suppression, tumour
  reversion, apoptosis and/or resistance to viruses and the use
  thereof as medicaments
  JOURNAL Patent: WO 03025177-A 3302 27-MAR-2003;
  Molecular Engines Laboratories (FR)
FEATURES
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    Location/Qualifiers
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        /mol_type="unassigned DNA"
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Query Match
  1.8%; Score 16; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 705
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Db 1 GATCACTTGGAGATT 16

RESULT 46
LOCUS AX737721
DEFINITION Sequence 3311 from Patent WO03025177.
ACCESSION AX737721
VERSION AX737721.1 GI:30517009
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
  1 Telerman,A., Anson,R. and Tuijinder,M.
  TITLE Sequences involved in phenomena of tumour suppression, tumour
  reversion, apoptosis and/or resistance to viruses and the use
  thereof as medicaments
  JOURNAL Patent: WO 03025177-A 3302 27-MAR-2003;
  Molecular Engines Laboratories (FR)
FEATURES
  source
    Location/Qualifiers
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        /organism="Homo sapiens"
        /mol_type="unassigned DNA"
        /db_xref="taxon:9606"

Query Match
  1.8%; Score 16; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 705
  |||||
Db 1 GATCACTTGGAGATT 16

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REFERENCE
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or resistance to viruses and the use thereof as medicaments
JOURNAL Patent: WO 03025177-A 3111 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES Location/Qualifiers
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Best Local Similarity 100.0%; Pred. No. 52;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 517 GATCGCCCAATAACA 532
Db 1 GATCGCCCAATAACA 16
RESULT 46
AX378471/c
LOCUS AX378471 18 bp DNA linear PAT 18-MAR-2002
DEFINITION Sequence 260 from Patent WO0206525.
ACCESSION AX378471
VERSION AX378471.1 GI:119574324
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Cohen,D., Blumenfeld,M., Chumakov,I., Abderrahim,H. and Bihain,B.
TITLE Obesity associated biallelic marker maps
JOURNAL Patent: WO 0206525-A 260 24-JAN-2002;
GENSET (FR)
FEATURES Location/Qualifiers
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Query Match 1.8%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 153 TGAAGGTGTGGGAAG 168
Db 16 TGAAGGTGTGGGAAG 1
RESULT 47
AR225282
LOCUS AR225282 19 bp DNA linear PAT 26-SEP-2002
DEFINITION Sequence 27 from patent US 6441273.
ACCESSION AR225282
VERSION AR225282.1 GI:23334504
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 19)
AUTHORS Aldwinckle,H.S. and Gaitan,A.L.
TITLE Constitutive and inducible promoters from coffee plants
JOURNAL Patent: US 6441273-A 27 27-AUG-2002;
FEATURES Location/Qualifiers
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/organism="unknown"
/mol_type="genomic DNA"

Query Match 1.8%; Score 16; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 58;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 195 ATGGATTTCATGTTTCATG 212
Db 1 ATGGNTTCCATGTCATG 18
RESULT 48
AX706659
LOCUS AX706659 17 bp DNA linear PAT 04-APR-2003
DEFINITION Sequence 356 from Patent WO03013534.
ACCESSION AX706659
VERSION AX706659.1 GI:29563082
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Heinrich,G. and Kerb,R.
TITLE Methods for the treatment of cancer with irinotecan based on CYP3A5
JOURNAL Patent: WO 03013534-A 356 20-FEB-2003;
Epidaurus Biotechnologie AG (DE)
FEATURES Location/Qualifiers
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
misc_feature 9
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Query Match 1.8%; Score 15.6; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 56;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 321 GCAATGTGACTGCTGA 336
Db 2 GCAATGTGACTGCTGA 17
RESULT 49
AX707589
LOCUS AX707589 17 bp DNA linear PAT 04-APR-2003
DEFINITION Sequence 356 from Patent WO03013536.
ACCESSION AX707589
VERSION AX707589.1 GI:29563762
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Heinrich,G. and Kerb,R.
TITLE Methods for treatment of cancer using irinotecan based on UGT1A1
JOURNAL Patent: WO 03013536-A 356 20-FEB-2003;
Epidaurus Biotechnologie AG (DE)
FEATURES Location/Qualifiers
source
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
misc_feature 9
/note="r-a or g"
Query Match 1.8%; Score 15.6; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 56;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 321 GCAATGTGACTGCTGA 336

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Db      2  GCAATGCTACTGCTGA 17

RESULT 50
BD255580/c
LOCUS      17 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION  BD255580
VERSION     BD255580.1 GI:33065350
KEYWORDS   JP 2002541795-A/3373.
SOURCE     unidentified
ORGANISM   unclassified.
REFERENCE  1 (bases 1 to 17)
AUTHORS   Blatt, L., Zwick, M., Pavco, P. and McSwiggen, J.
TITLE     Regulation of repressor genes using nucleic acid molecules
JOURNAL   Patent: JP 2002541795-A 3373 10-DEC-2002;
          RIBOZYME PHARMACEUTICALS INC
COMMENT   OS Eukaryote
          PN JP 2002541795-A/3373
          FD 10-DEC-2002
          PF 11-APR-2000 JP 2000611654
          PR 12-APR-1999 US 60/129390
          PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC
          C12N15/09, A61K38/00, A61K48/00, A61P43/00, C12N5/10, PC
          C12P21/02,
          PC
          C12P21/02, C12P21/02//A61K31/711, (C12N5/10, C12R1:91), (C12P21/02, PC
          C12R1:91),
          PC (C12P21/02, C12R1:91), (C12P21/02, C12R1:91), C12N15/00, C12N5/00,
          PC A61K37/02,
          PC (C12N5/00, C12R1:91)
          CC Regulation of repressor genes using nucleic acid molecules FH
          Key Location/Qualifiers
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          FT /organism='Eukaryote'.

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/db_xref='taxon:32644'

Query Match 1.8%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 59;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 458 ATGAAGAAGTACAAAG 475
Db 17 ATGAAGAAAATACAAAG 1
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RESULT 51
BD255581/c
LOCUS      17 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION  BD255581
VERSION     BD255581.1 GI:33065351
KEYWORDS   JP 2002541795-A/3374.
SOURCE     unidentified
ORGANISM   unclassified.
REFERENCE  1 (bases 1 to 17)
AUTHORS   Blatt, L., Zwick, M., Pavco, P. and McSwiggen, J.
TITLE     Regulation of repressor genes using nucleic acid molecules
JOURNAL   Patent: JP 2002541795-A 3374 10-DEC-2002;
          RIBOZYME PHARMACEUTICALS INC
COMMENT   OS Eukaryote
          PN JP 2002541795-A/3374
          FD 10-DEC-2002
          PF 11-APR-2000 JP 2000611654
          PR 12-APR-1999 US 60/129390
          PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC
          C12N15/09, A61K38/00, A61K48/00, A61P43/00, A61P43/00, C12N5/10, PC
          C12P21/02,
          PC
          C12P21/02, C12P21/02//A61K31/711, (C12N5/10, C12R1:91), (C12P21/02, PC
          C12R1:91),
          PC (C12P21/02, C12R1:91), (C12P21/02, C12R1:91), C12N15/00, C12N5/00,
          PC A61K37/02,
          PC (C12N5/00, C12R1:91)
          CC Regulation of repressor genes using nucleic acid molecules FH
          Key Location/Qualifiers
          FT source 1..17
          FT /organism='Eukaryote'.

FEATURES
source
1..17
/organism='unidentified'
/mol_type='genomic DNA'
/db_xref='taxon:32644'

Query Match 1.8%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 59;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 459 ATGAAGAAGTACAAAG 475
Db 17 ATGAAGAAAATACAAAG 1
|||||
|

RESULT 52
I06872/c
LOCUS      17 bp      DNA      linear      PAT 02-DEC-1994
DEFINITION Sequence 3 from Patent EP 0340805.
ACCESSION  I06872
VERSION     I06872.1 GI:589849
KEYWORDS   Unknown.
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 17)
AUTHORS   Hallewell, R.A. and Mullenbach, G.T.
TITLE     Superoxide dismutase and expression in microorganisms
JOURNAL   Patent: EP 0340805-A1 3 08-NOV-1989;
          Location/Qualifiers
          FT source 1..17
          FT /organism='unknown'
          FT /mol_type='unassigned DNA'

Query Match 1.8%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 59;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 122 AATTCGAGCAGAAGGA 138
Db 17 AACTCGAGCAGAAGGA 1
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|

RESULT 53
CQ821402
LOCUS      15 bp      DNA      linear      PAT 14-JUN-2004
DEFINITION Sequence 8 from Patent WO2004038019.
ACCESSION  CQ821402
VERSION     CQ821402.1 GI:48716051
KEYWORDS   Homo sapiens (human)
SOURCE     Homo sapiens
ORGANISM   Homo sapiens
REFERENCE  1
AUTHORS   Beeson, D., Wood, M. and Abdelgany, A.
TITLE     Dnzyme cleaving mutant polynucleotides
JOURNAL   Patent: WO 2004038019-A 8 06-MAY-2004;
          ISIS INNOVATION LIMITED (GB)
          Location/Qualifiers
          FT source 1..15
          FT /organism='Homo sapiens'
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      1.7%; Score 15; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 95 GGCACGCGCCAGTG 109
|||||
Db 1 GGCACGCGCCAGTG 15

RESULT 54
CQ821408
LOCUS      15 bp      DNA      linear      PAT 14-JUN-2004
DEFINITION Sequence 14 from Patent WO2004038019.
ACCESSION CQ821408
VERSION    CQ821408.1 GI:48716057
KEYWORDS   Homo sapiens (human)
SOURCE     Homo sapiens
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS    Beeson,D., Wood,M. and Abdelgany,A.
TITLE      Dnazyme cleaving mutant polynucleotides
JOURNAL    Patent: WO 2004038019-A 14 06-MAY-2004;
            ISIS INNOVATION LIMITED (GB)
FEATURES   Location/Qualifiers
            source
            1..15
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      1.7%; Score 15; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 437 GATGACTTGGGCAA 451
|||||
Db 1 GATGACTTGGGCAA 15

RESULT 55
AX081871/c
LOCUS      17 bp      DNA      linear      PAT 27-FEB-2001
DEFINITION Sequence 115 from Patent WO0109183.
ACCESSION  AX081871
VERSION     AX081871.1 GI:13170678
KEYWORDS    synthetic construct
SOURCE      synthetic construct
ORGANISM    other sequences; artificial sequences.
REFERENCE   1
AUTHORS     Brinkmann,U., Hoffmeyer,S., Eichelbaum,M. and Roots,I.
TITLE       Polymorphisms in the human mdr-1 gene and their use in diagnostic
            and therapeutic applications
JOURNAL     Patent: WO 0109183-A 115 08-FEB-2001;
            EPIDAUROS AG Biotechnologie Aktiengesellschaft (DE)
FEATURES   Location/Qualifiers
            source
            1..17
            /organism="synthetic construct"
            /mol_type="unassigned DNA"
            /db_xref="taxon:32630"
            /note="y=c or t"

Query Match      1.7%; Score 15; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 1; Mismatches 1; Indels 1; Gaps 0;

QY 319 GGCATGTCAGTCGCTG 335
|||||
Db 17 GTGCAATGTRACTGCTG 1

RESULT 56
AX706658/c
LOCUS      17 bp      DNA      linear      PAT 04-APR-2003
DEFINITION Sequence 355 from Patent WO03013534.
ACCESSION  AX706658
VERSION     AX706658.1 GI:29563081
KEYWORDS    Homo sapiens (human)
SOURCE     Homo sapiens
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS    Heinrich,G. and Kerb,R.
TITLE      Methods for the treatment of cancer with irinotecan based on CYP3A5
JOURNAL    Patent: WO 03013534-A 355 20-FEB-2003;
            Epidauros Biotechnologie AG (DE)
FEATURES   Location/Qualifiers
            source
            1..17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"
            misc_feature
            8
            /note="y=c or t"

Query Match      1.7%; Score 15; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 319 GGCATGTCAGTCGCTG 335
|||||
Db 17 GTGCAATGTRACTGCTG 1

RESULT 57
AX707588/c
LOCUS      17 bp      DNA      linear      PAT 04-APR-2003
DEFINITION Sequence 355 from Patent WO03013536.
ACCESSION  AX707588
VERSION     AX707588.1 GI:29563761
KEYWORDS    Homo sapiens (human)
SOURCE     Homo sapiens
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS    Heinrich,G. and Kerb,R.
TITLE      Methods for treatment of cancer using irinotecan based on UGT1A1
JOURNAL    Patent: WO 03013536-A 355 20-FEB-2003;
            Epidauros Biotechnologie AG (DE)
FEATURES   Location/Qualifiers
            source
            1..17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"
            misc_feature
            8
            /note="y=c or t"

Query Match      1.7%; Score 15; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 1; Mismatches 1; Indels 1; Gaps 0;

QY 319 GGCATGTCAGTCGCTG 335
|||||
Db 17 GTGCAATGTRACTGCTG 1

RESULT 58
AX732679
LOCUS      17 bp      DNA      linear      PAT 08-MAY-2003
DEFINITION Sequence 4313 from Patent WO03025175.
ACCESSION  AX732679
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VERSION      AX732679.1  GI:30512022
KEYWORDS     Homo sapiens (human)
SOURCE       Homo sapiens
ORGANISM     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE    1
AUTHORS      Teلمان, A., Anson, R. and Tuijinder, M.
TITLE        Sequences involved in phenomena of tumour suppression, tumour
              reversion, apoptosis and/or virus resistance and their use as
              medicines
JOURNAL      Patent: WO 03025175-A 4313 27-MAR-2003;
              Molecular Engines Laboratories (FR).
FEATURES     source
              1..17
                /organism="Homo sapiens"
                /mol_type="unassigned DNA"
                /db_xref="taxon:9606"

Query Match      1.7%; Score 15; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      811  TCAAGCCTGTGAATA 825
Db      3    TCAAGCCTGTGAATA 17
          |||||
          |||||

RESULT 59
LOCUS    A16196
DEFINITION Oligonucleotide primer pair 2, second.
ACCESSION A16196
VERSION    A16196.1  GI:583046
KEYWORDS   synthetic construct
SOURCE     synthetic construct
           other sequences; artificial sequences.
REFERENCE  1 (bases 1 to 17)
AUTHORS    Rossau, Rudi. and Van Heuverswijn, Hugo.
TITLE      Hybridization probes derived from the spacer region between the 16S
           and 23S rRNA genes for the detection of non-viral microorganisms
JOURNAL    Patent: EP 0452596-A 4 23-OCT-1991;
           N.V. INNOGENETICS S.A
FEATURES   source
           1..17
             /organism="synthetic construct"
             /mol_type="unassigned DNA"
             /db_xref="taxon:32630"

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      67  GCGGACGAGCGCGTG 82
Db      16  GCGGACGAGGACGTG 1
          |||||
          |||||

RESULT 60
LOCUS    A16242/c
DEFINITION Oligonucleotide primer AP23.
ACCESSION A16242
VERSION    A16242.1  GI:583092
KEYWORDS   synthetic construct
SOURCE     synthetic construct
           other sequences; artificial sequences.
REFERENCE  1 (bases 1 to 17)
AUTHORS    Rossau, Rudi. and Van Heuverswijn, Hugo.
TITLE      Hybridization probes derived from the spacer region between the 16S
           and 23S rRNA genes for the detection of non-viral microorganisms
JOURNAL    Patent: EP 0452596-A 4 23-OCT-1991;
           N.V. INNOGENETICS S.A
FEATURES   source
           1..17
             /organism="synthetic construct"
             /mol_type="unassigned DNA"
             /db_xref="taxon:32630"

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      67  GCGGACGAGCGCGTG 82
Db      16  GCGGACGAGGACGTG 1
          |||||
          |||||

RESULT 61
LOCUS    BD203207/c
DEFINITION Method and reagent for treating diseases or conditions concerning
           molecule participating in vasculogenic response.
ACCESSION    BD203207
VERSION      BD203207.1  GI:33012977
KEYWORDS     JP 2002509721-A/6233.
SOURCE       Homo sapiens (human)
ORGANISM     Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE    1 (bases 1 to 17)
AUTHORS      Pavco, P.A., Roberts, E., Jarvis, T., Coeshott, C. and Mcswiggen, J.A.
TITLE        Method and reagent for treating diseases or conditions concerning
           molecule participating in vasculogenic response
JOURNAL      Patent: JP 2002509721-A 6233 02-APR-2002;
           RIBOZYME PHARMACEUTICALS INC
COMMENT      OS Homo sapiens (human)
           PN JP 2002509721-A/6233
           PF 02-APR-2002
           PR 24-MAR-1999 JP 2000541291
           PR 27-MAR-1998 US 60/079678
           PI PAMELA A PAVCO, ELISABETH ROBERTS, THALE JARVIS, CLAIRE COESHOTT,
           PI JAMES A MCSWIGGEN
           PC C12N15/09,A61K31/7088,A61K31/7125,A61K48/00,A61P3/10,A61P17/06, PC
           PC A61P29/00,
           PC A61P35/00,A61P43/00,C12N5/10,C12N9/00//A61K35/76,C12N15/00, PC
           C12N5/00
           CC Method and reagent for treating diseases or conditions CC
           concerning molecule
           CC participating in vasculogenic response
           FH Key Location/Qualifiers
           FT source 1..17
           FT /organism='Homo sapiens (human)'.
           FT Location/Qualifiers
           source 1..17
             /organism="Homo sapiens"
             /mol_type="genomic RNA"
             /db_xref="taxon:9606"

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      676  AGAACTGATTATGA 691
Db      16  AGAACTGATTATGA 1
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          |||||

RESULT 62
LOCUS    BD255579/c
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD255579

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VERSION BD255579.1 GI:33065349
KEYWORDS JP 2002541795-A/3372.
SOURCE unidentifed
ORGANISM unclassified
REFERENCE 1 (bases 1 to 17)
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE Regulation of repressor genes using nucleic acid molecules
JOURNAL Patent: JP 2002541795-A 3372 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT OS Eukaryote
PN JP 2002541795-A/3372
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT,MICHAEL,ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10,PC
C12P21/02,
PC C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02,PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
KEY Location/Qualifiers
FT source 1..17
FT /organism='Eukaryote'.

FEATURES
source
Location/Qualifiers
1..17
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 461 GAAGAAAGTACAAAGA 476
DB 17 GAAGAAATACAAAGA 2

RESULT 63
BD255582/c
LOCUS 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD255582
VERSION BD255582.1 GI:33065352
KEYWORDS JP 2002541795-A/3375.
SOURCE unidentifed
ORGANISM unclassified
REFERENCE 1 (bases 1 to 17)
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE Regulation of repressor genes using nucleic acid molecules
JOURNAL Patent: JP 2002541795-A 3375 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT OS Eukaryote
PN JP 2002541795-A/3375
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT,MICHAEL,ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10,PC
C12P21/02,
PC C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02,PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
KEY Location/Qualifiers
FT source 1..17
FT /organism='Eukaryote'.

FEATURES
source
Location/Qualifiers
1..17
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 461 GAAGAAAGTACAAAGA 476
DB 17 GAAGAAATACAAAGA 2

RESULT 63
BD255582/c
LOCUS 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD255582
VERSION BD255582.1 GI:33065352
KEYWORDS JP 2002541795-A/3375.
SOURCE unidentifed
ORGANISM unclassified
REFERENCE 1 (bases 1 to 17)
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE Regulation of repressor genes using nucleic acid molecules
JOURNAL Patent: JP 2002541795-A 3375 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT OS Eukaryote
PN JP 2002541795-A/3375
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT,MICHAEL,ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10,PC
C12P21/02,
PC C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02,PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
KEY Location/Qualifiers
FT source 1..17
FT /organism='Eukaryote'.

FEATURES
source
Location/Qualifiers
1..17
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 458 AATGAAGAAAGTACAA 473
DB 16 AATGAAGAAATACAA 1

RESULT 64
BD257636
LOCUS 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD257636
VERSION BD257636.1 GI:33067406
KEYWORDS JP 2002541795-A/5429.
SOURCE unidentifed
ORGANISM unclassified
REFERENCE 1 (bases 1 to 17)
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE Regulation of repressor genes using nucleic acid molecules
JOURNAL Patent: JP 2002541795-A 5429 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT OS Eukaryote
PN JP 2002541795-A/5429
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT,MICHAEL,ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10,PC
C12P21/02,
PC C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02,PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
KEY Location/Qualifiers
FT source 1..17
FT /organism='Eukaryote'.

FEATURES
source
Location/Qualifiers
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/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 135 AGGAAAGTAAATGGACC 150
DB 1 AGGAAACTAATGGACC 16

RESULT 65
I23680/c
LOCUS 17 bp DNA linear PAT 07-OCT-1996
DEFINITION Sequence 102 from patent US 5536638.
ACCESSION I23680
VERSION I23680.1 GI:1603550
KEYWORDS

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SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Roseau,R. and Van Heuverswyn,H.
TITLE Hybridization probes derived from the spacer region between the 16S and 23S rRNA genes for the detection of Neisseria gonorrhoeae
JOURNAL Patent: US 5536638-A 102 16-JUL-1996;
FEATURES Location/Qualifiers
source 1..17
/organism="unknown"
/mol_type="unassigned DNA"
Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAAGCGCGTG 82
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Db 16 GCGGACGAAGGACGTG 1

RESULT 66
LOCUS 123682/c 17 bp DNA linear PAT 07-OCT-1996
DEFINITION Sequence 104 from patent US 5536638.
ACCESSION 123682
VERSION 123682.1 GI:1603552
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Roseau,R. and Van Heuverswyn,H.
TITLE Hybridization probes derived from the spacer region between the 16S and 23S rRNA genes for the detection of Neisseria gonorrhoeae
JOURNAL Patent: US 5536638-A 104 16-JUL-1996;
FEATURES Location/Qualifiers
source 1..17
/organism="unknown"
/mol_type="unassigned DNA"
Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAAGCGCGTG 82
|||||
Db 16 GCGGACGAAGGACGTG 1

RESULT 67
LOCUS 123682/c 17 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 102 from patent US 6656689.
ACCESSION AR433547
VERSION AR433547.1 GI:40196383
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Roseau,R. and Van Heuverswyn,H.
TITLE Hybridization probes derived from the spacer region between the 16S and 23S rRNA genes for the detection of non-viral microorganisms
JOURNAL Patent: US 6656689-A 102 02-DEC-2003;
FEATURES Location/Qualifiers
source 1..17
/organism="unknown"
/mol_type="genomic DNA"
Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAAGCGCGTG 82
|||||
Db 16 GCGGACGAAGGACGTG 1

RESULT 68
LOCUS AR433549/c 17 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 104 from patent US 6656689.
ACCESSION AR433549
VERSION AR433549.1 GI:40196385
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Rossau,R. and Van Heuverswyn,H.
TITLE Hybridization probes derived from the spacer region between the 16S and 23S rRNA genes for the detection of non-viral microorganisms
JOURNAL Patent: US 6656689-A 104 02-DEC-2003;
FEATURES Location/Qualifiers
source 1..17
/organism="unknown"
/mol_type="genomic DNA"
Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 67 GCGGACGAAGCGCGTG 82
|||||
Db 16 GCGGACGAAGGACGTG 1

RESULT 69
LOCUS AX216792/c 17 bp RNA linear PAT 07-SEP-2001
DEFINITION Sequence 2234 from Patent WO0159103.
ACCESSION AX216792
VERSION AX216792.1 GI:15526853
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Blatt,L., McSwiggen,J. and Chowrira,B.M.
TITLE Method and reagent for the modulation and diagnosis of cd20 and nogo gene expression
JOURNAL Patent: WO 0159103-A 2234 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Blatt, Lawrence (US) ; McSwiggen, James (US) ; Chowrira, Bharat M. (US)
FEATURES Location/Qualifiers
source 1..17
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Nucleic Acid"
Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 857 TTAAGAAGATCCAAAT 872
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Db 17 TTAAGAAGATCCAAAT 2

RESULT 70
LOCUS AX216884 17 bp RNA linear PAT 07-SEP-2001
DEFINITION Sequence 2326 from Patent WO0159103.

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ACCESSION  AX216884
VERSION     AX216884.1  GI:15526945
KEYWORDS   .
SOURCE     synthetic construct
ORGANISM   synthetic construct
           other sequences; artificial sequences.
REFERENCE  1
AUTHORS    Blatt,L., McSwiggen,J. and Chowrira,B.M.
TITLE      Method and reagent for the modulation and diagnosis of cd20 and
           nogo gene expression
JOURNAL    Patent: WO 0159103-A 2326 16-AUG-2001;
           RIBOSYME PHARMACEUTICALS, INC. (US) ; Blatt, Lawrence (US) ;
           McSwiggen, James (US) ; Chowrira, Bharat M. (US)
FEATURES   Location/Qualifiers
           source
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               /organism="synthetic construct"
               /mol_type="unassigned RNA"
               /db_xref="taxon:32630"
               /note="Nucleic Acid"

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 822 AATAAAACCTGTAT 837
      ||||| |||||
Db 1 AATAAAACCTGTAT 16

RESULT 71
AX701183/c
LOCUS       AX701183                17 bp  DNA          PAT 03-APR-2003
DEFINITION  Sequence 19 from Patent WO03012097.
ACCESSION   AX701183
VERSION     AX701183.1  GI:29536953
KEYWORDS    .
SOURCE      synthetic construct
ORGANISM    synthetic construct
           other sequences; artificial sequences.
REFERENCE  1
AUTHORS     Price,G.B. and Zannis-Hadjopoulos,M.
TITLE       Methods of inhibiting dna replication
JOURNAL     Patent: WO 03012097-A 19 13-FEB-2003;
           Price, Gerald B. (CA) ; Zannis-Hadjopoulos, Maria (CA)
FEATURES   Location/Qualifiers
           source
             1..17
               /organism="synthetic construct"
               /mol_type="unassigned DNA"
               /db_xref="taxon:32630"
               /note="Synthetic oligonucleotide"

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 453 GTGGAATGAAGAAAG 468
      ||||| |||||
Db 16 GTGGAGATGAAGAAAG 1

RESULT 72
AX706656/c
LOCUS       AX706656                17 bp  DNA          PAT 04-APR-2003
DEFINITION  Sequence 353 from Patent WO03013534.
ACCESSION   AX706656
VERSION     AX706656.1  GI:29563079
KEYWORDS    .
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS     Heinrich,G. and Kerb,R.
TITLE       Methods for treatment of cancer using irinotecan based on UGT1A1
JOURNAL     Patent: WO 03013536-A 353 20-FEB-2003;
           Epidauros Biotechnologie AG (DE)
FEATURES   Location/Qualifiers
           source
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               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

TITLE      Methods for the treatment of cancer with irinotecan based on CYP3A5
JOURNAL    Patent: WO 03013534-A 353 20-FEB-2003;
           Epidauros Biotechnologie AG (DE)
FEATURES   Location/Qualifiers
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               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
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Db 16 GCATGTAACTGCTGA 1

RESULT 73
AX706657
LOCUS       AX706657                17 bp  DNA          PAT 04-APR-2003
DEFINITION  Sequence 354 from Patent WO03013534.
ACCESSION   AX706657
VERSION     AX706657.1  GI:29563080
KEYWORDS    .
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS     Heinrich,G. and Kerb,R.
TITLE       Methods for the treatment of cancer with irinotecan based on CYP3A5
JOURNAL     Patent: WO 03013534-A 354 20-FEB-2003;
           Epidauros Biotechnologie AG (DE)
FEATURES   Location/Qualifiers
           source
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               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
      ||||| |||||
Db 16 GCATGTAACTGCTGA 1

RESULT 74
AX707586/c
LOCUS       AX707586                17 bp  DNA          PAT 04-APR-2003
DEFINITION  Sequence 353 from Patent WO03013536.
ACCESSION   AX707586
VERSION     AX707586.1  GI:29563759
KEYWORDS    .
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS     Heinrich,G. and Kerb,R.
TITLE       Methods for treatment of cancer using irinotecan based on UGT1A1
JOURNAL     Patent: WO 03013536-A 353 20-FEB-2003;
           Epidauros Biotechnologie AG (DE)
FEATURES   Location/Qualifiers
           source
             1..17
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
      ||||| |||||
Db 2 GCATGTAACTGCTGA 17

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Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGTGA 336
 Db 16 GCAATGTGACTGTGA 1

RESULT 75
 AX707587
 LOCUS AX707587 17 bp DNA linear PAT 04-APR-2003
 DEFINITION Sequence 354 from Patent WO03013536.
 ACCESSION AX707587
 VERSION AX707587.1 GI:29563760
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Homo sapiens
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
 AUTHORS Heinrich, G. and Kerb, R.
 TITLE Methods for treatment of cancer using irinotecan based on UGT1A1
 JOURNAL Patent: WO 03013536-A 354 20-FEB-2003;
 Epidauros Biotechnologie AG (DE)

FEATURES
 source 1. .17
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 72;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGTGA 336
 Db 2 GCAATGTGACTGTGA 17

RESULT 76
 AX731809
 LOCUS AX731809 17 bp DNA linear PAT 08-MAY-2003
 DEFINITION Sequence 3443 from Patent WO03025175.
 ACCESSION AX731809
 VERSION AX731809.1 GI:30511152
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
 AUTHORS Telerman, A., Anson, R. and Tuijnder, M.
 TITLE Sequences involved in phenomena of tumour suppression, tumour
 reversion, apoptosis and/or virus resistance and their use as
 medicines
 JOURNAL Patent: WO 03025175-A 3443 27-MAR-2003;
 Molecular Engines Laboratories (FR)

FEATURES
 source 1. .17
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 72;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 620 ATCTTAAAGTGTAAT 635
 Db 2 ATCTTAAAGTGTAAT 17

RESULT 77
 AX733720

LOCUS AX733720 17 bp DNA linear PAT 08-MAY-2003
 DEFINITION Sequence 5354 from Patent WO03025175.
 ACCESSION AX733720
 VERSION AX733720.1 GI:30513063
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Homo sapiens
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
 AUTHORS Telerman, A., Anson, R. and Tuijnder, M.
 TITLE Sequences involved in phenomena of tumour suppression, tumour
 reversion, apoptosis and/or virus resistance and their use as
 medicines
 JOURNAL Patent: WO 03025175-A 5354 27-MAR-2003;
 Molecular Engines Laboratories (FR)

FEATURES
 source 1. .17
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 72;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 376 GATCTCACTCTCAGGA 391
 Db 1 GATCTCACTCTCAGGA 16

RESULT 78
 AX735175
 LOCUS AX735175 17 bp DNA linear PAT 08-MAY-2003
 DEFINITION Sequence 765 from Patent WO03025177.
 ACCESSION AX735175
 VERSION AX735175.1 GI:30514452
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
 AUTHORS Telerman, A., Anson, R. and Tuijnder, M.
 TITLE Sequences involved in phenomena of tumour suppression, tumour
 reversion, apoptosis and/or resistance to viruses and the use
 thereof as medicaments
 JOURNAL Patent: WO 03025177-A 765 27-MAR-2003;
 Molecular Engines Laboratories (FR)

FEATURES
 source 1. .17
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 72;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 261 ATCCTCTATCCAGAA 276
 Db 2 ATCCTATATCCAGAA 17

RESULT 79
 AX761994
 LOCUS AX761994 17 bp DNA linear PAT 25-JUN-2003
 DEFINITION Sequence 5315 from Patent WO03040369.
 ACCESSION AX761994
 VERSION AX761994.1 GI:32256610
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1
Teleman,A., Anson,R. and Tuijinder,M.
Sequences involved in tumoral suppression, tumoral reversion, apoptosis and/or viral resistance phenomena and their use as medicines
Patent: WO 03040369-A 5315 15-MAY-2003;
Molecular Engines Laboratories (FR)
Location/Qualifiers
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 620 ATCTTAAAGTGAAT 635
|||||
Db 2 ATCTTAAAGTGTAT 17

RESULT 80
CQ784352/c
LOCUS
DEFINITION Sequence 8 from Patent WO2004016317.
ACCESSION CQ784352
VERSION CQ784352.1 GI:45538840
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
Touw,I.P., Delwel,H.R., Lowenberg,B. and Valk,P.J.
Use of murine genomic regions identified to be involved in tumor development for the development of anti-cancer drugs and diagnosis of cancer
Patent: WO 2004016317-A 8 26-FEB-2004;
Erasmus University Medical Center Rotterdam (NL)
Location/Qualifiers
1. .18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Primer pLTR3"

Query Match 1.6%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 76;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 380 TCACTCTCAGGAGACC 395
|||||
Db 16 TCACTCTGAGGAGACC 1

RESULT 81
AR046169
LOCUS
DEFINITION Sequence 962 from patent US 5817796.
ACCESSION AR046169
VERSION AR046169.1 GI:5967634
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE C-myb ribozymes having 2'-5'-linked adenylate residues
JOURNAL Patent: US 5817796-A 962 06-OCT-1998;
LOCATION/Qualifiers
1. .17

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTTTATAAAA 722
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Db 1 ATAGTTTTTATAAAA 14

RESULT 84
I53221
LOCUS
DEFINITION Sequence 962 from patent US 5817796.
ACCESSION I53221

/organism="unknown"
/mol_type="unassigned DNA"

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTTTATAAAA 722
|||||
Db 3 ATAGTTTTTATAAAA 16

RESULT 82
AR046171
LOCUS
DEFINITION Sequence 964 from patent US 5817796.
ACCESSION AR046171
VERSION AR046171.1 GI:5967636
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE C-myb ribozymes having 2'-5'-linked adenylate residues
JOURNAL Patent: US 5817796-A 964 06-OCT-1998;
LOCATION/Qualifiers
1. .17
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTTTATAAAA 722
|||||
Db 2 ATAGTTTTTATAAAA 15

RESULT 83
AR046173
LOCUS
DEFINITION Sequence 966 from patent US 5817796.
ACCESSION AR046173
VERSION AR046173.1 GI:5967638
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE C-myb ribozymes having 2'-5'-linked adenylate residues
JOURNAL Patent: US 5817796-A 966 06-OCT-1998;
LOCATION/Qualifiers
1. .17
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTTTATAAAA 722
|||||
Db 1 ATAGTTTTTATAAAA 14

RESULT 84
I53221
LOCUS
DEFINITION Sequence 962 from patent US 5817796.
ACCESSION I53221

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VERSION 153221.1 GI:2474424
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE C-myb targeted ribozymes
JOURNAL Patent: US 5646042-A 962 08-JUL-1997;
FEATURES
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            /organism="unknown"
            /mol_type="unassigned DNA"
Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 709 ATAGTTTATAAAA 722
Db 3 ATAGTTTATAAAA 16
|||||
|

RESULT 85
LOCUS 153223
DEFINITION 17 bp DNA linear PAT 07-OCT-1997
ACCESSION Sequence 964 from patent US 5646042.
VERSION 153223
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE C-myb targeted ribozymes
JOURNAL Patent: US 5646042-A 964 08-JUL-1997;
FEATURES
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            /mol_type="unassigned DNA"
Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 709 ATAGTTTATAAAA 722
Db 3 ATAGTTTATAAAA 16
|||||
|

RESULT 86
LOCUS 153225
DEFINITION 17 bp DNA linear PAT 07-OCT-1997
ACCESSION Sequence 966 from patent US 5646042.
VERSION 153225
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE C-myb targeted ribozymes
JOURNAL Patent: US 5646042-A 966 08-JUL-1997;
FEATURES
    source
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            /organism="unknown"
            /mol_type="unassigned DNA"
Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 709 ATAGTTTATAAAA 722
Db 2 ATAGTTTATAAAA 15
|||||
|

RESULT 87
LOCUS 153225
DEFINITION 17 bp RNA linear PAT 07-SEP-2001
ACCESSION Sequence 484 from Patent WO0159103.
VERSION 153225
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Blatt,L., McSwiggen,J. and Chowrira,B.M.
TITLE Method and reagent for the modulation and diagnosis of cd20 and
JOURNAL nogo gene expression
PATENT: WO 0159103-A 484 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Blatt, Lawrence (US) ;
MCSWIGGEN, James (US) ; Chowrira, Bharat M. (US)
FEATURES
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            /organism="synthetic construct"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32630"
            /note="Nucleic Acid"
Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 674 TGAGAAACTGATT 687
Db 14 TGAGAAACTGATT 1
|||||
|

RESULT 88
LOCUS AX215907/c
DEFINITION 17 bp RNA linear PAT 07-SEP-2001
ACCESSION Sequence 1349 from Patent WO0159103.
VERSION AX215907.1 GI:15525950
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Blatt,L., McSwiggen,J. and Chowrira,B.M.
TITLE Method and reagent for the modulation and diagnosis of cd20 and
JOURNAL nogo gene expression
PATENT: WO 0159103-A 1349 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Blatt, Lawrence (US) ;
MCSWIGGEN, James (US) ; Chowrira, Bharat M. (US)
FEATURES
    source
        1..17
            /organism="synthetic construct"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32630"
            /note="Nucleic Acid"
Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 674 TGAGAAACTGATT 687
Db 17 TGAGAAACTGATT 4
|||||
|

RESULT 89
LOCUS AX215907/c
DEFINITION 17 bp RNA linear PAT 07-SEP-2001
ACCESSION Sequence 1349 from Patent WO0159103.
VERSION AX215907.1 GI:15525950
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Blatt,L., McSwiggen,J. and Chowrira,B.M.
TITLE Method and reagent for the modulation and diagnosis of cd20 and
JOURNAL nogo gene expression
PATENT: WO 0159103-A 1349 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Blatt, Lawrence (US) ;
MCSWIGGEN, James (US) ; Chowrira, Bharat M. (US)
FEATURES
    source
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            /organism="synthetic construct"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32630"
            /note="Nucleic Acid"
Query Match 1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 674 TGAGAAACTGATT 687
Db 17 TGAGAAACTGATT 4
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AX216554/c  AX216554      17 bp  RNA      linear      PAT 07-SEP-2001
LOCUS
DEFINITION  Sequence 1996 from Patent WO0159103.
ACCESSION  AX216554
VERSION    AX216554.1  GI:15526615
KEYWORDS
SOURCE
ORGANISM   synthetic construct
            synthetic construct
            other sequences; artificial sequences.
REFERENCE
AUTHORS    Blatt,L., Mcswiggen,J. and Chowrira,B.M.
TITLE      Method and reagent for the modulation and diagnosis of cd20 and
            nogo gene expression
JOURNAL    Patent: WO 0159103-A 1996 16-AUG-2001;
            RIBOZYME PHARMACEUTICALS, INC. (US) ; Blatt, Lawrence (US) ;
            McSwiggen, James (US) ; Chowrira, Bharat M. (US)
FEATURES
source
1..17
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Nucleic Acid"

Query Match      1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  674  TGAGAAACTGATTT 587
Db   16  TGAGAAACTGATTT 3

RESULT 90
BD257133
LOCUS
DEFINITION  Regulation of repressor genes using nucleic acid molecules.
ACCESSION  BD257133
VERSION    BD257133.1  GI:33066903
KEYWORDS   JP 2002541795-A/4926.
SOURCE     unidentified
ORGANISM   unclassified.
REFERENCE
1 (bases 1 to 17)
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
/organism="Eukaryote"

AUTHORS    Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE      Regulation of repressor genes using nucleic acid molecules
JOURNAL    Patent: JP 2002541795-A 4926 10-DEC-2002;
            RIBOZYME PHARMACEUTICALS INC
COMMENT
OS Eukaryote
PN JP 2002541795-A/4926
PD 10-DEC-2002
PR 11-APR-2000 JP 2000611654
PI 12-APR-1999 US 60/129390
PT LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
C12P21/02,
PC
C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
Key Location/Qualifiers
FT source 1..17
/organism="Eukaryote".

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/mol_type="genomic DNA"
/db_xref="taxon:32644"

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  777  ATGGGTATTAAACTTGT 793
Db   1  ATGGGTATTAAACTGT 17

RESULT 92
BD257135
LOCUS
DEFINITION  Regulation of repressor genes using nucleic acid molecules.
ACCESSION  BD257135
VERSION    BD257135.1  GI:33066905
KEYWORDS   JP 2002541795-A/4928.
SOURCE     unidentified
ORGANISM   unclassified.
REFERENCE
1 (bases 1 to 17)
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
/organism="Eukaryote"

AUTHORS    Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE      Regulation of repressor genes using nucleic acid molecules
JOURNAL    Patent: JP 2002541795-A 4928 10-DEC-2002;
            RIBOZYME PHARMACEUTICALS INC
COMMENT
OS Eukaryote
PN JP 2002541795-A/4928
PD 10-DEC-2002

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Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  776  GATGGGTATTAACTTG 792
Db   1  GATGGGTATTAAACATG 17

RESULT 91
BD257134
LOCUS
DEFINITION  Regulation of repressor genes using nucleic acid molecules.
ACCESSION  BD257134
VERSION    BD257134.1  GI:33066904
KEYWORDS   JP 2002541795-A/4927.
SOURCE     unidentified
ORGANISM   unclassified.
REFERENCE
1 (bases 1 to 17)
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
/organism="Eukaryote"

AUTHORS    Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE      Regulation of repressor genes using nucleic acid molecules
JOURNAL    Patent: JP 2002541795-A 4927 10-DEC-2002;
            RIBOZYME PHARMACEUTICALS INC
COMMENT
OS Eukaryote
PN JP 2002541795-A/4927
PD 10-DEC-2002
PR 11-APR-2000 JP 2000611654
PI 12-APR-1999 US 60/129390
PT LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
C12P21/02,
PC
C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
Key Location/Qualifiers
FT source 1..17
/organism="Eukaryote".

FEATURES
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/db_xref="taxon:32644"

Query Match      1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  777  ATGGGTATTAAACTTGT 793
Db   1  ATGGGTATTAAACTGT 17

RESULT 92
BD257135
LOCUS
DEFINITION  Regulation of repressor genes using nucleic acid molecules.
ACCESSION  BD257135
VERSION    BD257135.1  GI:33066905
KEYWORDS   JP 2002541795-A/4928.
SOURCE     unidentified
ORGANISM   unclassified.
REFERENCE
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/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
/organism="Eukaryote"

AUTHORS    Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE      Regulation of repressor genes using nucleic acid molecules
JOURNAL    Patent: JP 2002541795-A 4928 10-DEC-2002;
            RIBOZYME PHARMACEUTICALS INC
COMMENT
OS Eukaryote
PN JP 2002541795-A/4928
PD 10-DEC-2002

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PF 11-APR-2000 JP 2000611654
PI 12-APR-1999 US 60/129390
LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC
C12N15/09, A61K38/00, A61K48/00, A61P43/00, A61P43/00, C12N5/10, PC
C12P21/02,
PC
C12P21/02, C12P21/02//A61K31/711, (C12N5/10, C12R1:91), (C12P21/02, PC
C12R1:91),
PC (C12P21/02, C12R1:91), (C12P21/02, C12R1:91), C12N15/00, C12N5/00,
PC A61K37/02,
PC (C12N5/00, C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
Key source Location/Qualifiers
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Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 778 TGGGTATTAACTGTGC 794
Db 1 TGGGTTTAAACATGTC 17
RESULT 93
CQ624220 17 bp DNA linear PAT 02-FEB-2004
LOCUS Sequence 8960 from Patent WO0192524.
DEFINITION CQ624220
ACCESSION CQ624220
VERSION CQ624220.1 GI:41674438
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Gu, Y., Ji, Y., Penn, S.G., Hanzel, D.K., Rank, D.R., Chen, W. and
Shannon, M.E.
TITLE Myosin-like gene expressed in human heart and muscle
JOURNAL Patent: WO 0192524-A 8960 06-DEC-2001;
Aeomica, Inc. (US)
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 183 CTGAAGCCCGCATGGA 199
Db 1 CTGAAGCCCGCATGGA 17
RESULT 94
I06874/c 17 bp DNA linear PAT 02-DEC-1994
LOCUS I06874
DEFINITION Sequence 5 from Patent EP 0340805.
ACCESSION I06874
VERSION I06874.1 GI:589851
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)

AUTHORS Hallelwell, R.A. and Mullenbach, G.T.
TITLE Superoxide dismutase and expression in microorganisms
JOURNAL Patent: EP 0340805-A1 5 08-NOV-1989;
FEATURES
Location/Qualifiers
source
1..17
/organism="unknown"
/mol_type="unassigned DNA"
Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 392 GACCAATGCATCATTCG 408
Db 17 GACCACTGCATCATTCG 1
RESULT 95
AR190462/c 17 bp DNA linear PAT 20-APR-2002
LOCUS AR190462
DEFINITION Sequence 5950 from patent US 6346398.
ACCESSION AR190462
VERSION AR190462.1 GI:20236427
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
TITLE Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
JOURNAL Patent: US 6346398-A 5950 12-FEB-2002;
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Location/Qualifiers
source
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Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 543 TGCAGTCTGAGGTCCT 559
Db 17 TGCAGTCTGAGGTCCT 1
RESULT 96
AR325385/c 17 bp RNA linear PAT 17-AUG-2003
LOCUS AR325385
DEFINITION Sequence 2787 from patent US 6566127.
ACCESSION AR325385
VERSION AR325385.1 GI:33711193
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Pavco, P., McSwiggen, J.A., Stinchcomb, D.T. and Escobedo, J.
TITLE Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
JOURNAL Patent: US 6566127-A 2787 20-MAY-2003;
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Location/Qualifiers
source
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Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 543 TGCAGTCTGAGGTCCT 559
Db 17 TGCAGTCTGAGGTCCT 1

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 730 AAAATGCTCTTTCAAT 746
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Db 17 AAAATGTTTGCAT 1

RESULT 102
LOCUS AX265751 17 bp DNA linear PAT 26-OCT-2001
DEFINITION Sequence 3142 from Patent WO0173002.
ACCESSION AX265751
VERSION AX265751.1 GI:16514550
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens

REFERENCE 1
AUTHORS Kniec,E.B., Gamper,H.B. and Rice,M.C.
TITLE Targeted chromosomal genomic alterations with modified single stranded oligonucleotides
JOURNAL Patent: WO 0173002-A 3142 04-OCT-2001;
UNIVERSITY OF DELAWARE (US)
FEATURES
source Location/Qualifiers
1. .17
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAACTGATTATGAT 692
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Db 1 AGATACTCAATTATGAT 17

RESULT 103
LOCUS AX265752/c 17 bp DNA linear PAT 26-OCT-2001
DEFINITION Sequence 3143 from Patent WO0173002.
ACCESSION AX265752
VERSION AX265752.1 GI:16514551
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens

REFERENCE 1
AUTHORS Kniec,E.B., Gamper,H.B. and Rice,M.C.
TITLE Targeted chromosomal genomic alterations with modified single stranded oligonucleotides
JOURNAL Patent: WO 0173002-A 3143 04-OCT-2001;
UNIVERSITY OF DELAWARE (US)
FEATURES
source Location/Qualifiers
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAACTGATTATGAT 692
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Db 17 AGATACTCAATTATGAT 1

RESULT 104
LOCUS AX691936 17 bp DNA linear PAT 31-MAR-2003.
DEFINITION Sequence 4668 from Patent EP1281758.
ACCESSION AX691936
VERSION AX691936.1 GI:29414877
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens

REFERENCE 1
AUTHORS Shannon,M., Gu,Y. and Nguyen,C.T.
TITLE Four human zinc-finger-containing proteins : mdz3, mdz4, mdz7 and mdz12
JOURNAL Patent: EP 1281758-A 4668 05-FEB-2003;
Aeomica, Inc. (US)
FEATURES
source Location/Qualifiers
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 549 CTGAGGCCCTTAACTC 565
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Db 1 CTGAGGCCCTCAGCTC 17

RESULT 105
LOCUS AX782232/c 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Sequence 563 from Patent WO03050284.
ACCESSION AX782232
VERSION AX782232.1 GI:32950081
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens

REFERENCE 1
AUTHORS Guo,J.
TITLE Human prostate cancer candidate protein 1
JOURNAL Patent: WO 03050284-A 563 19-JUN-2003;
Amersham Biosciences (SV) Corp. (US)
FEATURES
source Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 635 TTCTGTGACTTTTTCAG 651
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Db 17 TTCTGAGACTTTTTCAG 1

RESULT 106
LOCUS CQ821404 15 bp DNA linear PAT 14-JUN-2004
DEFINITION Sequence 10 from Patent WO2004038019.
ACCESSION CQ821404
VERSION CQ821404.1 GI:48716053
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens

REFERENCE 1
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE	1	Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
AUTHORS		Beeson, D., Wood, M. and Abdelgany, A.
TITLE		Dnzyme cleaving mutant polynucleotides
JOURNAL		Patent: WO 2004038019-A 10 06-MAY-2004;
FEATURES		ISIS INNOVATION LIMITED (GB)
source		Location/Qualifiers
	1..15	/organism="Homo sapiens"
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		/db_xref="taxon:9606"
Query Match		1.5%; Score 13.4; DB 1; Length 15;
Best Local Similarity		93.3%; Pred. No. 77;
Matches	14; Conservative	0; Mismatches 1; Indels 0; Gaps 0;
Qy	95	GGCGACGGCCAGTG 109
Db	1	GGCGACGGCCAGTG 15
RESULT 107		
LOCUS	CQ821409	15 bp DNA linear PAT 14-JUN-2004
DEFINITION		Sequence 15 from Patent WO2004038019.
ACCESSION	CQ821409	
VERSION	CQ821409.1	GI:48716058
KEYWORDS		Homo sapiens (human)
SOURCE		Homo sapiens
ORGANISM		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
REFERENCE	1	Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
AUTHORS		Beeson, D., Wood, M. and Abdelgany, A.
TITLE		Dnzyme cleaving mutant polynucleotides
JOURNAL		Patent: WO 2004038019-A 15 06-MAY-2004;
FEATURES		ISIS INNOVATION LIMITED (GB)
source		Location/Qualifiers
	1..15	/organism="Homo sapiens"
		/mol_type="unassigned DNA"
		/db_xref="taxon:9606"
Query Match		1.5%; Score 13.4; DB 1; Length 15;
Best Local Similarity		93.3%; Pred. No. 77;
Matches	14; Conservative	0; Mismatches 1; Indels 0; Gaps 0;
Qy	437	GATGACTTGGCAAA 451
Db	1	GATGACTTGGCAAA 15
RESULT 108		
LOCUS	BD178695/c	16 bp DNA linear PAT 16-APR-2003
DEFINITION		Gene panel for genes involving liver regeneration.
ACCESSION	BD178695	
VERSION	BD178695.1	GI:30015962
KEYWORDS		WO 02077222-A/33.
SOURCE		synthetic construct
ORGANISM		other sequences; artificial sequences.
REFERENCE	1	(bases 1 to 16)
AUTHORS		Yokoyama, F., Okutsu, T., Mori, M., Yoshiyuki, Takahara, Fukuda, H.,
TITLE		Aburatani, H. and Sonaka, I.
JOURNAL		Gene panel for genes involving liver regeneration
COMMENT		Patent: WO 02077222-A 33 03-OCT-2002;
		ATINOMOTO CO INC FUMIHIKO YOKOYA, TOMOHISA OKUTSU, MAIKO MORI,
		YOSHIYUKI TAKAHARA, HISAO FUKUDA, HIROYUKI ABURATANI, ICHIRO SONAKA
		OS Artificial Sequence
		PN WO 02077222-A/33
		PF 13-MAR-2002 WO 2002JPP002372
REFERENCE	1	Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
AUTHORS		Beeson, D., Wood, M. and Abdelgany, A.
TITLE		Dnzyme cleaving mutant polynucleotides
JOURNAL		Patent: WO 2004038019-A 10 06-MAY-2004;
FEATURES		ISIS INNOVATION LIMITED (GB)
source		Location/Qualifiers
	1..15	/organism="Homo sapiens"
		/mol_type="unassigned DNA"
		/db_xref="taxon:9606"
Query Match		1.5%; Score 13.4; DB 1; Length 15;
Best Local Similarity		93.3%; Pred. No. 77;
Matches	14; Conservative	0; Mismatches 1; Indels 0; Gaps 0;
Qy	95	GGCGACGGCCAGTG 109
Db	1	GGCGACGGCCAGTG 15
RESULT 107		
LOCUS	CQ821409	15 bp DNA linear PAT 14-JUN-2004
DEFINITION		Sequence 15 from Patent WO2004038019.
ACCESSION	CQ821409	
VERSION	CQ821409.1	GI:48716058
KEYWORDS		Homo sapiens (human)
SOURCE		Homo sapiens
ORGANISM		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
REFERENCE	1	Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
AUTHORS		Beeson, D., Wood, M. and Abdelgany, A.
TITLE		Dnzyme cleaving mutant polynucleotides
JOURNAL		Patent: WO 2004038019-A 15 06-MAY-2004;
FEATURES		ISIS INNOVATION LIMITED (GB)
source		Location/Qualifiers
	1..15	/organism="Homo sapiens"
		/mol_type="unassigned DNA"
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Query Match		1.5%; Score 13.4; DB 1; Length 15;
Best Local Similarity		93.3%; Pred. No. 77;
Matches	14; Conservative	0; Mismatches 1; Indels 0; Gaps 0;
Qy	437	GATGACTTGGCAAA 451
Db	1	GATGACTTGGCAAA 15
RESULT 108		
LOCUS	BD178695/c	16 bp DNA linear PAT 16-APR-2003
DEFINITION		Gene panel for genes involving liver regeneration.
ACCESSION	BD178695	
VERSION	BD178695.1	GI:30015962
KEYWORDS		WO 02077222-A/33.
SOURCE		synthetic construct
ORGANISM		other sequences; artificial sequences.
REFERENCE	1	(bases 1 to 16)
AUTHORS		Yokoyama, F., Okutsu, T., Mori, M., Yoshiyuki, Takahara, Fukuda, H.,
TITLE		Aburatani, H. and Sonaka, I.
JOURNAL		Gene panel for genes involving liver regeneration
COMMENT		Patent: WO 02077222-A 33 03-OCT-2002;
		ATINOMOTO CO INC FUMIHIKO YOKOYA, TOMOHISA OKUTSU, MAIKO MORI,
		YOSHIYUKI TAKAHARA, HISAO FUKUDA, HIROYUKI ABURATANI, ICHIRO SONAKA
		OS Artificial Sequence
		PN WO 02077222-A/33
		PF 13-MAR-2002 WO 2002JPP002372
REFERENCE	1	Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
AUTHORS		Beeson, D., Wood, M. and Abdelgany, A.
TITLE		Dnzyme cleaving mutant polynucleotides
JOURNAL		Patent: WO 2004038019

Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.	
REFERENCE	
AUTHORS	Beeson,D., Wood,M. and Abdelgany,A.
TITLE	Dnzyme cleaving mutant polynucleotides
JOURNAL	Patent: WO 2004038019-A 10 06-MAY-2004;
FEATURES	ISIS INNOVATION LIMITED (GB)
source	Location/Qualifiers
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Best Local Similarity	93.3%; Pred.No.77;
Matches	14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy	95 GGCGACGGCCAGTG 109
Db	1 GGCGACGGCCAGTG 15
RESULT 107	
CQ821409	
LOCUS	Sequence 15 from Patent WO2004038019.
DEFINITION	CQ821409
ACCESSION	CQ821409.1 GI:48716058
VERSION	
KEYWORDS	Homo sapiens (human)
SOURCE	Homo sapiens
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
REFERENCE	Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
AUTHORS	Beeson,D., Wood,M. and Abdelgany,A.
TITLE	Dnzyme cleaving mutant polynucleotides
JOURNAL	Patent: WO 2004038019-A 15 06-MAY-2004;
FEATURES	ISIS INNOVATION LIMITED (GB)
source	Location/Qualifiers
1..15	/organism="Homo sapiens"
/mol_type="unassigned DNA"	
/db_xref="taxon:9606"	
Query Match	1.5%; Score 13.4; DB 1; Length 15;
Best Local Similarity	93.3%; Pred.No.77;
Matches	14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy	437 GATGACTTGGCAAA 451
Db	1 GATGACTTGGCAAA 15
RESULT 108	
BD178695/c	
LOCUS	Gene panel for genes involving liver regeneration.
DEFINITION	BD178695
ACCESSION	BD178695.1 GI:30015962
VERSION	WO 02077222-A/33.
KEYWORDS	synthetic construct
SOURCE	other sequences; artificial sequences.
ORGANISM	1 (bases 1 to 16)
REFERENCE	Yokoyama,F., Okutsu,T., Mori,M., Yoshiyuki, Takahara, Fukuda,H.,
AUTHORS	Aburatani,H. and Sonaka,I.
TITLE	Gene panel for genes involving liver regeneration
JOURNAL	Patent: WO 02077222-A 33 03-OCT-2002;
COMMENT	AJINOMOTO CO INC FUMIHIKO YOKOYA,TOMOHIISA OKUTSU MAIKO MORI,
	YOSHIYUKI TAKAHARA,HISAO FUKUDA,HIROYUKI ABURATANI,ICHIRO SONAKA
OS	Artificial Sequence
PN	WO 02077222-A/33
PD	03-OCT-2002
PF	13-MAR-2002 WO 2002JPP002372

PR 13-MAR-2001 JP 01P 070940	
PI FUMIHIKO YOKOYA,TOMOHIISA OKUTSU,MAIKO MORI,YOSHIYUKI PI	
TAKAHARA,HISAO FUKUDA,	
PC HIROYUKI ABURATANI,ICHIRO SONAKA	
CI C12N15/09,C12Q1/68,G01N33/15,G01N33/50,G01N37/00 CC	
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FT /organism='Artificial Sequence'.	
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/mol_type="genomic DNA"	
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Query Match	1.5%; Score 13.4; DB 1; Length 16;
Best Local Similarity	93.3%; Pred.No.82;
Matches	14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy	310 TGGAGACTTTGGCAA 324
Db	15 TGGACACTTTGGCAA 1
RESULT 109	
AR328540/c	
LOCUS	Sequence 5942 from patent US 6566127.
DEFINITION	AR328540
ACCESSION	AR328540.1 GI:33714348
VERSION	
KEYWORDS	Unknown.
SOURCE	Unknown.
ORGANISM	Unclassified.
REFERENCE	1 (bases 1 to 16)
AUTHORS	Pavco,P., McSwiggan,J.A., Stinchcomb,D.T. and Escobedo,J.
TITLE	Method and reagent for the treatment of diseases or conditions
JOURNAL	related to levels of vascular endothelial growth factor receptor
FEATURES	Patent: US 6566127-A 5942 20-MAY-2003;
source	Location/Qualifiers
1..16	/organism="unknown"
/mol_type="unassigned RNA"	
Query Match	1.5%; Score 13.4; DB 1; Length 16;
Best Local Similarity	93.3%; Pred.No.82;
Matches	14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy	241 CAGTCAGGTCTCTCA 255
Db	16 CAGTCAGGTCTCTCA 2
RESULT 110	
AX600643	
LOCUS	Sequence 2 from Patent WO2092853.
DEFINITION	AX600643
ACCESSION	AX600643.1 GI:28400597
VERSION	
KEYWORDS	Bacillus cereus
SOURCE	Bacillus cereus
ORGANISM	Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus; Bacillus
REFERENCE	cereus group.
AUTHORS	1 Breen,A.W. and Singleton,F.I.
TITLE	Detection of spore forming bacteria
JOURNAL	Patent: WO 02092853-A 2 21-NOV-2002;
FEATURES	HERCULES INCORPORATED (US)
source	Location/Qualifiers
1..16	/organism="Bacillus cereus"
/mol_type="unassigned DNA"	

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/db_xref="taxon:1396"

Query Match      1.5%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 82;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 429 AAAAGCAGTACT 443
DB 2 AAAAGCAGTACT 16
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|||||

RESULT 111
BD263834
LOCUS
DEFINITION
  BD263834 13 bp RNA linear PAT 17-JUL-2003
  Adeno-associated virus-delivered ribozyme compositions and methods
  of use.
ACCESSION
  BD263834
VERSION
  BD263834.1 GI:33073602
KEYWORDS
  JP 2002542805-A/56.
SOURCE
  synthetic construct
ORGANISM
  other sequences; artificial sequences.
REFERENCE
  1 (bases 1 to 13)
AUTHORS
  Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
  Burger,C.
TITLE
  Adeno-associated virus-delivered ribozyme compositions and methods
  of use
JOURNAL
  Patent: JP 2002542805-A 56 17-DEC-2002;
  UNIVERSITY OF FLORIDA
COMMENT
  OS Artificial Sequence
  PN JP 2002542805-A/56
  PD 17-DEC-2002
  PR 28-APR-2000 JP 2000615402
  PF 30-APR-1999 US 60/131942
  PI ALFRED S LEWIN,NICHOLAS MUZYCZKA,WILLIAM W HAUSWIRTH PI
  ,CHRISTIAN TESCHENDORF,
  PI CORINNA BURGER
  PC C12N15/09,A01K67/027,C12N9/00,C12Q1/68,C12N15/00 CC
  Description of Artificial Sequence: SYNTHETIC PEPTIDE FH Key
  Location/Qualifiers
  FT source 1..13
  FT /organism='Artificial Sequence'.

FEATURES
  source
  1..13
  /organism="synthetic construct"
  /mol_type="genomic RNA"
  /db_xref="taxon:32630"

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 354 ATGTGTCATTGA 366
DB 1 ATGTGTCATTGA 13
|||||
|||||

RESULT 113
BD263838
LOCUS
DEFINITION
  BD263838 13 bp RNA linear PAT 17-JUL-2003
  Adeno-associated virus-delivered ribozyme compositions and methods
  of use.
ACCESSION
  BD263838
VERSION
  BD263838.1 GI:33073606
KEYWORDS
  JP 2002542805-A/60.
SOURCE
  synthetic construct
ORGANISM
  other sequences; artificial sequences.
REFERENCE
  1 (bases 1 to 13)
AUTHORS
  Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
  Burger,C.
TITLE
  Adeno-associated virus-delivered ribozyme compositions and methods
  of use
JOURNAL
  Patent: JP 2002542805-A 60 17-DEC-2002;
  UNIVERSITY OF FLORIDA
COMMENT
  OS Artificial Sequence
  PN JP 2002542805-A/60
  PD 17-DEC-2002
  PR 28-APR-2000 JP 2000615402
  PF 30-APR-1999 US 60/131942
  PI ALFRED S LEWIN,NICHOLAS MUZYCZKA,WILLIAM W HAUSWIRTH PI
  ,CHRISTIAN TESCHENDORF,
  PI CORINNA BURGER
  PC C12N15/09,A01K67/027,C12N9/00,C12Q1/68,C12N15/00 CC
  Description of Artificial Sequence: SYNTHETIC PEPTIDE FH Key
  Location/Qualifiers
  FT source 1..13
  FT /organism='Artificial Sequence'.

FEATURES
  source
  1..13
  /organism="synthetic construct"
  /mol_type="genomic RNA"
  /db_xref="taxon:32630"

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 245 GCAGGTCCTCACT 257
DB 1 GCAGGTCCTCACT 13
|||||
|||||

RESULT 112
BD263836
LOCUS
DEFINITION
  BD263836 13 bp RNA linear PAT 17-JUL-2003
  Adeno-associated virus-delivered ribozyme compositions and methods
  of use.
ACCESSION
  BD263836
VERSION
  BD263836.1 GI:33073604
KEYWORDS
  JP 2002542805-A/58.
SOURCE
  synthetic construct
ORGANISM
  other sequences; artificial sequences.
REFERENCE
  1 (bases 1 to 13)
AUTHORS
  Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
  Burger,C.
TITLE
  Adeno-associated virus-delivered ribozyme compositions and methods
  of use
JOURNAL
  Patent: JP 2002542805-A 58 17-DEC-2002;
  UNIVERSITY OF FLORIDA
COMMENT
  OS Artificial Sequence
  PN JP 2002542805-A/58
  PD 17-DEC-2002
  PR 28-APR-2000 JP 2000615402
  PF 30-APR-1999 US 60/131942
  PI ALFRED S LEWIN,NICHOLAS MUZYCZKA,WILLIAM W HAUSWIRTH PI
  ,CHRISTIAN TESCHENDORF,
  PI CORINNA BURGER
  PC C12N15/09,A01K67/027,C12N9/00,C12Q1/68,C12N15/00 CC
  Description of Artificial Sequence: SYNTHETIC PEPTIDE FH Key
  Location/Qualifiers
  FT source 1..13
  FT /organism='Artificial Sequence'.

FEATURES
  source
  1..13
  /organism="synthetic construct"
  /mol_type="genomic RNA"
  /db_xref="taxon:32630"

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 418 GGTGTCTCATGAA 430
DB 1 GGTGTCTCATGAA 430
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Db          1 GGTGGTCCATGAA 13

RESULT 114
BD263840
LOCUS      13 bp      RNA      linear      PAT 17-JUL-2003
DEFINITION Adeno-associated virus-delivered ribozyme compositions and methods
of use.
ACCESSION  BD263840
VERSION     BD263840.1 GI:33073608
KEYWORDS   JP 2002542805-A/62.
SOURCE     synthetic construct
ORGANISM   other sequences; artificial sequences.
REFERENCE  1 (bases 1 to 13)
AUTHORS    Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
            Burger,C.
TITLE      Adeno-associated virus-delivered ribozyme compositions and methods
of use
JOURNAL    Patent: JP 2002542805-A 62 17-DEC-2002;
COMMENT    UNIVERSITY OF FLORIDA
OS         Artificial Sequence
PN         JP 2002542805-A/62
PD         17-DEC-2002
PF         28-APR-2000 JP 2000615402
PI         30-APR-1999 US 60/131942
PR         ALFRED S LEWIN,NICHOLAS MUZYCZKA,WILLIAM W HAUSWIRTH PI
PT         CHRISTIAN TESCHENDORF,
PI         CORINNA BURGER
PC         C12N15/09,A01K67/027,C12N9/00,C12Q1/68,C12N15/00 CC
Description of Artificial Sequence: SYNTHETIC PEPTIDE FH Key
FT         Location/Qualifiers
FT         source
            1..13
            Location/Qualifiers
            1..13
            /organism="Artificial Sequence".
            /organism="synthetic construct"
            /mol_type="genomic RNA"
            /db_xref="taxon:32630"

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      488 GGAAGTCGTTGG 500
        |||||
        1 GGAAGTCGTTGG 13

RESULT 115
AX048320
LOCUS      13 bp      RNA      linear      PAT 15-DEC-2000
DEFINITION Sequence 56 from Patent WO0066780.
ACCESSION  AX048320
VERSION     AX048320.1 GI:11877085
KEYWORDS   .
SOURCE     synthetic construct
ORGANISM   other sequences; artificial sequences.
REFERENCE  1
AUTHORS    Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
            Burger,C.
TITLE      Adeno-associated virus-delivered ribozyme compositions and methods
of use
JOURNAL    Patent: WO 0066780-A 56 09-NOV-2000;
            University of Florida (US)
FEATURES   Location/Qualifiers
            source
            1..13
            /organism="synthetic construct"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32630"
            /note="SYNTHETIC PEPTIDE"

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      488 GGAAGTCGTTGG 500
        |||||
        1 GGAAGTCGTTGG 13

RESULT 116
AX048322
LOCUS      13 bp      RNA      linear      PAT 15-DEC-2000
DEFINITION Sequence 58 from Patent WO0066780.
ACCESSION  AX048322
VERSION     AX048322.1 GI:11877087
KEYWORDS   .
SOURCE     synthetic construct
ORGANISM   other sequences; artificial sequences.
REFERENCE  1
AUTHORS    Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
            Burger,C.
TITLE      Adeno-associated virus-delivered ribozyme compositions and methods
of use
JOURNAL    Patent: WO 0066780-A 58 09-NOV-2000;
            University of Florida (US)
FEATURES   Location/Qualifiers
            source
            1..13
            /organism="synthetic construct"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32630"
            /note="SYNTHETIC PEPTIDE"

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      354 ATGTGTCTATTGA 366
        |||||
        1 ATGTGTCTATTGA 13

RESULT 117
AX048324
LOCUS      13 bp      RNA      linear      PAT 15-DEC-2000
DEFINITION Sequence 60 from Patent WO0066780.
ACCESSION  AX048324
VERSION     AX048324.1 GI:11877089
KEYWORDS   .
SOURCE     synthetic construct
ORGANISM   other sequences; artificial sequences.
REFERENCE  1
AUTHORS    Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and
            Burger,C.
TITLE      Adeno-associated virus-delivered ribozyme compositions and methods
of use
JOURNAL    Patent: WO 0066780-A 60 09-NOV-2000;
            University of Florida (US)
FEATURES   Location/Qualifiers
            source
            1..13
            /organism="synthetic construct"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32630"
            /note="SYNTHETIC PEPTIDE"

Query Match      1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      418 GGTGGTCCATGAA 430
        |||||
        1 GGTGGTCCATGAA 13

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RESULT 118
AX048326
LOCUS AX048326 13 bp RNA linear PAT 15-DEC-2000
DEFINITION Sequence 62 from Patent WO0066780.
ACCESSION AX048326
VERSION AX048326.1 GI:11877091
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Lewin,A.S., Muzyczka,N., Hauswirth,W.W., Teschendorf,C. and Burger,C.
TITLE Adeno-associated virus-delivered ribozyme compositions and methods of use
JOURNAL Patent: WO 0066780-A 62 09-NOV-2000;
UNIVERSITY of Florida (US)
FEATURES
source Location/Qualifiers
1..13
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="SYNTHETIC PEPTIDE"
Query Match 1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 488 GGAAGTCGTTTG 500
|||||
Db 1 GGAAGTCGTTTG 13
RESULT 119
CQ786469/c
LOCUS CQ786469 16 bp DNA linear PAT 24-MAR-2004
DEFINITION Sequence 31 from Patent WO2004020611.
ACCESSION CQ786469
VERSION CQ786469.1 GI:45721541
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Jonniaux,J.L., Valepyn,E., Corbisier,A.M. and Dauvrin,T.
TITLE Myrothecium sp. Transformation and expression system
JOURNAL Patent: WO 2004020611-A 31 11-MAR-2004;
Puratos Naamloze Vennootschap (BE)
FEATURES
source Location/Qualifiers
1..16
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="AMY5 primer"
Query Match 1.5%; Score 13; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 109 GCAGGGCATCATC 121
|||||
Db 14 GCAGGGCATCATC 2
RESULT 120
AR329602
LOCUS AR329602 16 bp RNA linear PAT 17-AUG-2003
DEFINITION Sequence 7004 from patent US 6566127.
ACCESSION AR329602
VERSION AR329602.1 GI:33715410
KEYWORDS

SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 16)
AUTHORS Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor
JOURNAL Patent: US 6566127-A 7004 20-MAY-2003;
FEATURES Location/Qualifiers
1..16
source /organism="unknown"
/mol_type="unassigned RNA"
Query Match 1.5%; Score 13; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 421 GGTCCATGA AAAA 433
|||||
Db 4 GGTCCATGA AAAA 16
RESULT 121
A10669
LOCUS A10669 16 bp DNA linear PAT 02-DEC-1993
DEFINITION Oligonucleotide (H6).
ACCESSION A10669
VERSION A10669.1 GI:490795
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 16)
AUTHORS Ueda,I., Niwa,M., Saito,Y., Sato,S., Ono,H. and Kitaguchi,T.
TITLE Process for production of gamma-interferon
JOURNAL Patent: EP 0176916-A 54 09-APR-1986;
FUJISAWA PHARMACEUTICAL CO., LTD
FEATURES Location/Qualifiers
1..16
source /organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
Query Match 1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 92;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 691 ATCACTTGGAGATTT 706
|||||
Db 1 ATCACTTGGATGAGTT 16
RESULT 122
CQ821403
LOCUS CQ821403 16 bp DNA linear PAT 14-JUN-2004
DEFINITION Sequence 9 from Patent WO2004038019.
ACCESSION CQ821403
VERSION CQ821403.1 GI:48716052
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Beeson,D., Wood,M. and Abdelgany,A.
TITLE Dnzyme cleaving mutant polynucleotides
JOURNAL Patent: WO 2004038019-A 9 06-MAY-2004;
ISIS INNOVATION LIMITED (GB)
FEATURES Location/Qualifiers
1..16
source /organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 92;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 94 GGCGACGGCCCACTG 109
| | | | | | | | | | | | | | | |
Db 1 GGCGACGGCCCACTG 16

RESULT 123
LOCUS AR328567/c 16 bp RNA linear PAT 17-AUG-2003
DEFINITION Sequence 5969 from patent US 6566127.
ACCESSION AR328567
VERSION AR328567.1 GI:33714375
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 16)
AUTHORS Pavco, P., McSwiggen, J.A., Stinchcomb, D.T. and Escobedo, J.
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor
JOURNAL Patent: US 6566127-A 5969 20-MAY-2003;
FEATURES Location/Qualifiers
source 1..16
/organism="unknown"
/mol_type="unassigned RNA"

Query Match 1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 92;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 638 TGTGACTTTTTCAGAG 653
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Db 16 TGTGACTTTTTCAGT 1

RESULT 124
LOCUS AR328701 16 bp RNA linear PAT 17-AUG-2003
DEFINITION Sequence 6103 from patent US 6566127.
ACCESSION AR328701
VERSION AR328701.1 GI:33714509
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 16)
AUTHORS Pavco, P., McSwiggen, J.A., Stinchcomb, D.T. and Escobedo, J.
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor
JOURNAL Patent: US 6566127-A 6103 20-MAY-2003;
FEATURES Location/Qualifiers
source 1..16
/organism="unknown"
/mol_type="unassigned RNA"

Query Match 1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 92;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 424 CCATGAAAAGCAGAT 439
| | | | | | | | | | | | | | | |
Db 1 CCATGAAAATGCAAT 16

RESULT 125
LOCUS AX040892 16 bp DNA linear PAT 23-NOV-2000
DEFINITION Sequence 37 from Patent WO0065090.
ACCESSION AX040892

VERSION AX040892.1 GI:11340514
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Lok, S. and Whitmore, T.E.
TITLE The insulin receptor-related receptor gene sequence for diagnosis of human obesity and diabetic disorders
JOURNAL Patent: WO 0065090-A 37 02-NOV-2000;
ZymoGenetics, Inc. (US)

FEATURES Location/Qualifiers
source 1..16
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Oligonucleotide"

Query Match 1.5%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 92;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 380 TCACTCTCAGGAGACC 395
| | | | | | | | | | | | | | | |
Db 1 TTACTCTCAGGAGCC 16

RESULT 126
LOCUS CQ821410 14 bp DNA linear PAT 14-JUN-2004
DEFINITION Sequence 16 from Patent WO2004038019.
ACCESSION CQ821410
VERSION CQ821410.1 GI:48716059
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
AUTHORS Beeson, D., Wood, M. and Abdelgany, A.
TITLE Dnzyme cleaving mutant polynucleotides
JOURNAL Patent: WO 2004038019-A 16 06-MAY-2004;
ISIS INNOVATION LIMITED (GB)

FEATURES Location/Qualifiers
source 1..14
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.4%; Score 12.4; DB 1; Length 14;
Best Local Similarity 92.9%; Pred. No. 88;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 437 GATGACTGGGCAA 450
| | | | | | | | | | | | | | | |
Db 1 GATGACTGGGCAA 14

RESULT 127
LOCUS AX081113 14 bp DNA linear PAT 27-FEB-2001
DEFINITION Sequence 13 from Patent WO0109385.
ACCESSION AX081113
VERSION AX081113.1 GI:13170025
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Lukhtanov, E.A., Podyminogin, M.A. and Hedgpeth, J.
TITLE Attachment of oligonucleotides to solid supports through schiff base type linkages for capture and detection of nucleic acids
JOURNAL Patent: WO 0109385-A 13 08-FEB-2001;

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Epoch Pharmaceuticals, Inc. (US)
FEATURES
  source
    1. .14
      /organism="synthetic construct"
      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"
      /note="probe-5' AId"
Query Match
  1.4%; Score 12.4; DB 1; Length 14;
Best Local Similarity 92.9%; Pred. No. 88;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 496 TTGGCTGTGGTG 509
  |||||
  1 TTGGCTGTGGTG 14
Db
RESULT 128
I35229/c
LOCUS
  Sequence 197 from patent US 5599706.
  15 bp DNA linear PAT 13-MAY-1997
DEFINITION
  Sequence 197 from patent US 5599706.
ACCESSION
  I35229
VERSION
  I35229.1 GI:2088197
KEYWORDS
  Unknown.
SOURCE
  Unknown.
ORGANISM
  Unclassified.
REFERENCE
  1 (bases 1 to 15)
AUTHORS
  Stinchcomb,D.T., McSwiggen,J., Newton,R.S. and Ramharack,R.
TITLE
  Ribozymes targeted to apo(a) mRNA
JOURNAL
  Patent: US 5599706-A 197 04-FEB-1997;
FEATURES
  Location/Qualifiers
  source
    1. .15
      /organism="unknown"
      /mol_type="unassigned DNA"
Query Match
  1.4%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 94;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 703 ATTGTATAGTTTT 716
  |||||
  15 ATTTGGATAGTTTT 2
Db
RESULT 129
AX085048
LOCUS
  Sequence 225 from Patent WO0113117.
  15 bp DNA linear PAT 09-MAR-2001
DEFINITION
  Sequence 225 from Patent WO0113117.
ACCESSION
  AX085048
VERSION
  AX085048.1 GI:13275196
KEYWORDS
  Synthetic construct
SOURCE
  synthetic construct
  other sequences; artificial sequences.
REFERENCE
  1
AUTHORS
  Herath,H.M.
TITLE
  Proteins, genes and their use for diagnosis and treatment of breast
  cancer
JOURNAL
  Patent: WO 0113117-A 225 22-FEB-2001;
  Oxford GlycoSciences (UK) Limited (GB)
FEATURES
  Location/Qualifiers
  source
    1. .15
      /organism="synthetic construct"
      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"
      /note="Probe"
Query Match
  1.4%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 94;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 84 GCGTGCTGAAGGC 97
  |||||
  2 GCGTGCTGCAGGC 15
Db
RESULT 130
CQ828340/c
LOCUS
  Sequence 58 from Patent WO2004053120.
  14 bp DNA linear PAT 05-JUL-2004
DEFINITION
  Sequence 58 from Patent WO2004053120.
ACCESSION
  CQ828340
VERSION
  CQ828340.1 GI:49731823
KEYWORDS
  Rattus norvegicus (Norway rat)
SOURCE
  Rattus norvegicus
ORGANISM
  Rattus norvegicus
  Mammalia; Eutheria; Chordata; Vertebrata; Eutelestostomi;
  Mammalia; Eutheria; Chordata; Vertebrata; Eutelestostomi;
  Rattus.
REFERENCE
  1
AUTHORS
  Weihe,E., Bieller,A. and Schaefer,M.K.
TITLE
  Regulatory elements in the 5' region of the vrl gene
JOURNAL
  Patent: WO 2004053120-A 58 24-JUN-2004;
  Gruenthal GmbH (DE)
FEATURES
  Location/Qualifiers
  source
    1. .14
      /organism="Rattus norvegicus"
      /mol_type="unassigned DNA"
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QY 396 ATTGCATCATTTG 407
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  12 ATTGCATCATTTG 1
Db
RESULT 131
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LOCUS
  Sequence 2103 from patent US 6194150.
  15 bp DNA linear PAT 16-MAY-2001
DEFINITION
  Sequence 2103 from patent US 6194150.
ACCESSION
  ARI133678
VERSION
  ARI133678.1 GI:14122583
KEYWORDS
  Unknown.
SOURCE
  Unknown.
ORGANISM
  Unclassified.
REFERENCE
  1 (bases 1 to 15)
AUTHORS
  Stinchcomb,D.T., Jarvis,T. and McSwiggen,J.
TITLE
  Nucleic acid based inhibition of CD40
JOURNAL
  Patent: US 6194150-A 2103 27-FEB-2001;
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Query Match
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Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 431 AAAGCAGATGAC 442
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  14 AAAGCAGATGAC 3
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RESULT 132
I39110
LOCUS
  Sequence 148 from patent US 5616488.
  15 bp DNA linear PAT 13-MAY-1997
DEFINITION
  Sequence 148 from patent US 5616488.
ACCESSION
  I39110
VERSION
  I39110.1 GI:2083590
KEYWORDS
  Unknown.
SOURCE
  Unknown.

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ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Sullivan,S., Draper,K.G., McSwiggen,J. and Stinchcomb,D.T.
TITLE IL-5 targeted ribozymes
JOURNAL Patent: US 5616488-A 148 01-APR-1997;
FEATURES
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            /organism="unknown"
            /mol_type="unassigned DNA"
Query Match
    1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 730 AAAATGCTCTGTT 741
Db 1 AAAATGCTCTGTT 12

RESULT 133
180907/c
LOCUS 180907 15 bp DNA linear PAT 10-JUN-1998
DEFINITION Sequence 24 from patent US 5709997.
ACCESSION I80907
VERSION I80907.1 GI:3209197
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Marshall,R.L., Jou,C., Simons,J.N., Leary,T.P., Muerhoff,A.Scott.,
Desai,S.M. and Mushahwar,I.K.
TITLE Nucleic acid detection of hepatitis GB virus
JOURNAL Patent: US 5709997-A 24 20-JAN-1998;
FEATURES
    source
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            /mol_type="unassigned DNA"
Query Match
    1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 90 TGAAGGCGGACG 101
Db 13 TGAAGGCGGACG 2

RESULT 134
AX377090
LOCUS AX377090 15 bp DNA linear PAT 18-MAR-2002
DEFINITION Sequence 11 from Patent WO212561.
ACCESSION AX377090
VERSION AX377090.1 GI:19573381
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Kazemi,A., Messer,C. and Tanguay,D.A.
TITLE Haplotypes of the origl gene
JOURNAL Patent: WO 0212561-A 11 14-FEB-2002;
Genaisance Pharmaceuticals, Inc. (US)
FEATURES
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            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
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Query Match
    1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 1e+02;

ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Sullivan,S., Draper,K.G., McSwiggen,J. and Stinchcomb,D.T.
TITLE IL-5 targeted ribozymes
JOURNAL Patent: US 5616488-A 148 01-APR-1997;
FEATURES
    source
        1..15
            /organism="unknown"
            /mol_type="unassigned DNA"
Query Match
    1.4%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 611 AACACTGTAATCTT 624
Db 1 AACACTGKAATATT 14

RESULT 135
AX635353
LOCUS AX635353 15 bp RNA linear PAT 21-FEB-2003
DEFINITION Sequence 2492 from Patent EP1260586.
ACCESSION AX635353
VERSION AX635353.1 GI:28470967
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1
AUTHORS Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Drenzo,A.,
Karpeisky,A., Draper,K.G., Kisich,K., Matulic-Adamic,J.,
McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE Method and reagent for inhibiting the expression of disease related
genes
JOURNAL Patent: EP 1260586-A 2492 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
FEATURES
    source
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            /mol_type="unassigned RNA"
            /db_xref="taxon:32644"
Query Match
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Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 730 AAAATGCTCTGTT 741
Db 1 AAAATGCTCTGTT 12

Search completed: April 14, 2005, 16:42:55
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XX WO2003000707-A2.
XX 03-JAN-2003.
XX 19-JUN-2002; 2002WO-US019664.
XX 21-JUN-2001; 2001US-00888360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
XX Example 15; Page 77; 107pp; English.
XX
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
XX Sequence 20 BP; 8 A; 4 C; 2 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 2.3%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 60;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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XX RESULT 55
XX ACC40943/C
XX ID ACC40943 standard; DNA; 20 BP.
XX AC ACC40943;
XX
XX 23-MAY-2003 (first entry)
XX
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150497.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX
XX Homo sapiens.
XX Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
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FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT modified_base 1..5
FT /*tag= b
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
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XX
XX WO2003000707-A2.
XX 03-JAN-2003.
XX
XX 19-JUN-2002; 2002WO-US019664.
XX
XX 21-JUN-2001; 2001US-00888360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
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XX Example 15; Page 77; 107pp; English.
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XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
XX Sequence 20 BP; 8 A; 3 C; 1 G; 8 T; 0 U; 0 Other;
XX
XX Query Match 2.3%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 60;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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XX 843 TTATTATGAGGCTATTAAAA 862
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XX 20 TTATTATGAGGCTATTAAAA 1
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XX RESULT 56
XX ACC40883/C
XX ID ACC40883 standard; DNA; 20 BP.
XX AC ACC40883;
XX
XX 23-MAY-2003 (first entry)
XX
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150437.
XX
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XX
SQ Sequence 20 BP; 3 A; 7 C; 7 G; 3 T; 0 U; 0 Other;
    Query Match      2.3%; Score 20; DB 1; Length 20;
    Best Local Similarity 100.0%; Pred. No. 60;
    Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 38 CAGGACCTCGGCGTGGCTTA 57
Db 20 CAGGACCTCGGCGTGGCTTA 1

RESULT 59
ACC40896/c
ID ACC40896 standard; DNA; 20 BP.
XX
AC ACC40896;
XX
DT 23-MAY-2003 (first entry)
XX
DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150450.
XX
KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
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FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT modified_base 1..5
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
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XX
PN WO2003000707-A2.
XX
PD 03-JAN-2003.
XX
PF 19-JUN-2002; 2002WO-US019664.
XX
PR 21-JUN-2001; 2001US-00888360.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Bennett FC, Dobie K;
XX
DR WPI; 2003-184032/18.
XX
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
PS Claim 3; Page 76; 107pp; English.
XX
XX
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition

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CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC Compounds of the invention are useful for inhibiting the expression of
CC human superoxide dismutase 1 in human cells or tissues, and for treating
CC a disease or condition associated with this enzyme (antisense therapy),
CC especially amyotrophic lateral sclerosis, a disease or condition arising
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC used in diagnostics, therapeutics and as a research reagent, e.g.
CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. Sequences given in records ACC40890-ACC40957 represent human
CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
SQ Sequence 20 BP; 3 A; 7 C; 4 G; 6 T; 0 U; 0 Other;
    Query Match      2.3%; Score 20; DB 1; Length 20;
    Best Local Similarity 100.0%; Pred. No. 60;
    Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 AAGGACTGACTGAAGGCGCTG 193
Db 20 AAGGACTGACTGAAGGCGCTG 1

RESULT 59
ACC40899/c
ID ACC40899 standard; DNA; 20 BP.
XX
AC ACC40899;
XX
DT 23-MAY-2003 (first entry)
XX
DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150453.
XX
KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
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FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /*tag= c
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
PN WO2003000707-A2.
XX
PD 03-JAN-2003.
XX
PF 19-JUN-2002; 2002WO-US019664.
XX
PR 21-JUN-2001; 2001US-00888360.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Bennett FC, Dobie K;
XX
DR WPI; 2003-184032/18.
XX
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

```

XX PS Claim 3; Page 76; 107pp; English.

XX CC The invention relates to a compound of 8-50 nucleobases in length,

XX CC targeted to a nucleic acid molecule encoding human superoxide dismutase

XX CC 1. The compound specifically hybridises with and inhibits the expression

XX CC of human superoxide dismutase 1 by hybridising with at least an 8-

XX CC nucleobase portion of the nucleic acid molecule encoding the active site

XX CC of the enzyme. The activity of compounds of the invention may be

XX CC described as neuroprotective, cytostatic and antiinflammatory. The

XX CC mechanism of action of compounds of the invention is antisense inhibition

XX CC of human superoxide dismutase 1 expression by chimeric phosphorothioate

XX CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.

XX CC Compounds of the invention are useful for inhibiting the expression of

XX CC human superoxide dismutase 1 in human cells or tissues, and for treating

XX CC a disease or condition associated with this enzyme (antisense therapy),

XX CC especially amyotrophic lateral sclerosis, a disease or condition arising

XX CC from aberrant apoptosis and a hyperproliferative disorder. It may also be

XX CC used in diagnostics, therapeutics and as a research reagent, e.g.

XX CC prophylactically to prevent or delay infection, inflammation or tumour

XX CC formation. Sequences given in records ACC40880-ACC40957 represent human

XX CC superoxide dismutase 1 antisense inhibitor oligonucleotides

XX SQ Sequence 20 BP; 4 A; 5 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 60;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 221 GATAATACAGCAGGCTGTAC 240

DB 20 GATAATACAGCAGGCTGTAC 1

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RESULT 60

ACC40928/c

ID ACC40928 standard; DNA; 20 BP.

XX AC ACC40928;

XX DT 23-MAY-2003 (first entry)

XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150482.

XX KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;

XX KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;

XX KW hyperproliferative disorder; therapy; infection; inflammation; tumour;

XX KW ss.

XX OS Homo sapiens.

XX OS Synthetic.

XX FH Key Location/Qualifiers

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FT /note= "Phosphorothioate linkages. All cytosines are 5-

FT methylcytosine"

FT modified_base 1..5

FT /*tag= b

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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

FT modified_base 16..20

FT /*tag= c

FT /mod_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

XX PN WO2003000707-A2.

XX PD 03-JAN-2003.

XX PF 19-JUN-2002; 2002WO-US019664.

PR 21-JUN-2001; 2001US-00888360.

XX PA (ISIS-) ISIS PHARM INC.

XX PI Bennett FC, Dobie K;

XX DR WPI; 2003-184032/18.

XX PT Novel antisense compounds targeted to nucleic acids encoding human

XX PT superoxide dismutase 1, for modulating expression of the dismutase and

XX PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

XX PS Claim 3; Page 77; 107pp; English.

XX CC The invention relates to a compound of 8-50 nucleobases in length,

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XX CC of human superoxide dismutase 1 by hybridising with at least an 8-

XX CC nucleobase portion of the nucleic acid molecule encoding the active site

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XX CC described as neuroprotective, cytostatic and antiinflammatory. The

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XX CC of human superoxide dismutase 1 expression by chimeric phosphorothioate

XX CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.

XX CC Compounds of the invention are useful for inhibiting the expression of

XX CC human superoxide dismutase 1 in human cells or tissues, and for treating

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XX CC especially amyotrophic lateral sclerosis, a disease or condition arising

XX CC from aberrant apoptosis and a hyperproliferative disorder. It may also be

XX CC used in diagnostics, therapeutics and as a research reagent, e.g.

XX CC prophylactically to prevent or delay infection, inflammation or tumour

XX CC formation. Sequences given in records ACC40880-ACC40957 represent human

XX CC superoxide dismutase 1 antisense inhibitor oligonucleotides

XX SQ Sequence 20 BP; 5 A; 4 C; 2 G; 9 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 60;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 769 AATCAGATGGGTATTTAA 788

DB 20 AATCAGATGGGTATTTAA 1

|||||

RESULT 61

ACC40944/c

ID ACC40944 standard; DNA; 20 BP.

XX AC ACC40944;

XX DT 23-MAY-2003 (first entry)

XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150498.

XX KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;

XX KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;

XX KW hyperproliferative disorder; therapy; infection; inflammation; tumour;

XX KW ss.

XX OS Homo sapiens.

XX OS Synthetic.

XX FH Key Location/Qualifiers

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FT /mod_base= OTHER

FT /note= "Phosphorothioate linkages. All cytosines are 5-

FT methylcytosine"

FT modified_base 1..5

FT /*tag= b

FT /mod_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

PN WO2003000707-A2.

XX 03-JAN-2003.

XX 19-JUN-2002; 2002WO-US019664.

XX 21-JUN-2001; 2001US-00888360.

XX (ISIS-) ISIS PHARM INC.

PA Bennett FC, Dobie K;

XX WPI; 2003-184032/18.

XX Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

PS Example 15; Page 77; 107pp; English.

XX The invention relates to a compound of 8-50 nucleobases in length,
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 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides

XX Sequence 20 BP; 5 A; 4 C; 3 G; 8 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 849 TGAGGCTATTAAAGAAATCC 868

Db 20 TGAGGCTATTAAAGAAATCC 1

RESULT 62

ACC40884/c

ID ACC40884 standard; DNA; 20 BP.

XX ACC40884;

XX 23-MAY-2003 (first entry)

DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150438.

XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.

XX Homo sapiens.

OS Synthetic.

XX Key Location/Qualifiers
 FH modified_base 1..20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

WO2003000707-A2.

XX 03-JAN-2003.

XX 19-JUN-2002; 2002WO-US019664.

XX 21-JUN-2001; 2001US-00888360.

XX (ISIS-) ISIS PHARM INC.

XX Bennett FC, Dobie K;

XX WPI; 2003-184032/18.

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 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
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 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides

XX Sequence 20 BP; 4 A; 5 C; 8 G; 3 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 19 CCGTTCAGTCCTCGGAACC 38

Db 20 CCGTTCAGTCCTCGGAACC 1

RESULT 63

ACC40886/c

ID ACC40886 standard; DNA; 20 BP.

XX ACC40886;

XX ACC40886;

DT 23-MAY-2003 (first entry)
DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150440.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
XX 03-JAN-2003.
XX 19-JUN-2002; 2002WO-US019664.
XX 21-JUN-2001; 2001US-00888360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX Novel antisense compounds targeted to nucleic acids encoding human
FT superoxide dismutase 1, for modulating expression of the dismutase and
FT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX Example 15; Page 76; 107pp; English.
XX The invention relates to a compound of 8-50 nucleobases in length,
CC targeted to a nucleic acid molecule encoding human superoxide dismutase
CC 1. The compound specifically hybridises with and inhibits the expression
CC of human superoxide dismutase 1 by hybridising with at least an 8-
CC nucleobase portion of the nucleic acid molecule encoding the active site
CC of the enzyme. The activity of compounds of the invention may be
CC described as neuroprotective, cytostatic and antiinflammatory. The
CC mechanism of action of compounds of the invention is antisense inhibition
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC A disease or condition associated with this enzyme (antisense therapy),
CC especially amyotrophic lateral sclerosis, a disease or condition arising
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC used in diagnostics, therapeutics and as a research reagent, e.g.
CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. Sequences given in records ACC40880-ACC40957 represent human
CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX SQ Sequence 20 BP; 3 A; 5 C; 8 G; 4 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 27 GTCTCGGAACACGACCTC 46
DB |||||
20 GTCTCGGAACACGACCTC 1
RESULT 64
ID ACC40889/c
XX ACC40889 standard; DNA; 20 BP.
AC ACC40889;
XX
XX 23-MAY-2003 (first entry)
DT Human superoxide dismutase 1 antisense inhibitor # ISIS 150443.
DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
XX 03-JAN-2003.
XX 19-JUN-2002; 2002WO-US019664.
XX 21-JUN-2001; 2001US-00888360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX Novel antisense compounds targeted to nucleic acids encoding human
FT superoxide dismutase 1, for modulating expression of the dismutase and
FT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX Claim 3; Page 76; 107pp; English.
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CC 1. The compound specifically hybridises with and inhibits the expression
CC of human superoxide dismutase 1 by hybridising with at least an 8-
CC nucleobase portion of the nucleic acid molecule encoding the active site
CC of the enzyme. The activity of compounds of the invention may be
CC described as neuroprotective, cytostatic and antiinflammatory. The
CC mechanism of action of compounds of the invention is antisense inhibition
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC Compounds of the invention are useful for inhibiting the expression of
CC human superoxide dismutase 1 in human cells or tissues, and for treating
CC a disease or condition associated with this enzyme (antisense therapy),
CC especially amyotrophic lateral sclerosis, a disease or condition arising
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC used in diagnostics, therapeutics and as a research reagent, e.g.
CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. Sequences given in records ACC40880-ACC40957 represent human
CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX SQ

CC	nucleobase portion of the nucleic acid molecule encoding the active site
CC	of the enzyme. The activity of compounds of the invention may be
CC	described as neuroprotective, cytostatic and antiinflammatory. The
CC	mechanism of action of compounds of the invention is antisense inhibition
CC	of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC	oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC	Compounds of the invention are useful for inhibiting the expression of
CC	human superoxide dismutase 1 in human cells or tissues, and for treating
CC	a disease or condition associated with this enzyme (antisense therapy),
CC	especially amyotrophic lateral sclerosis, a disease or condition arising
CC	from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC	used in diagnostics, therapeutics and as a research reagent, e.g.
CC	prophylactically to prevent or delay infection, inflammation or tumour
CC	formation. Sequences given in records ACC40890-ACC40957 represent human
CC	superoxide dismutase 1 antisense inhibitor oligonucleotides
XX	
SQ	Sequence 20 BP; 4 A; 7 C; 2 G; 7 T; 0 U; 0 Other;
Query Match	2.3%; Score 20; DB 1; Length 20;
Best Local Similarity	100.0%; Pred.No.60;
Matches 20; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
QY	161 TGGGGAAGCATTAAAGCACT 180
DB	
	20 TGGGGAGCATTAAAGCACT 1
RESULT 66	
ACC40931/c	
ID	ACC40931 standard; DNA; 20 BP.
AC	
XC	ACC40931;
XX	
DT	23-MAY-2003 (first entry)
XX	
DE	Human superoxide dismutase 1 antisense inhibitor # ISIS 150485.
XX	
KW	Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW	antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW	hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW	ss.
XX	
OS	Homo sapiens.
OS	Synthetic.
XX	
FH	Key Location/Qualifiers
FT	modified_base 1..20
FT	/tag= a
FT	/mod_base= OTHER
FT	/note= "Phosphorothioate linkages. All cytosines are 5-
FT	methylcytosine"
FT	modified_base 1..5
FT	/tag= b
FT	/mod_base= OTHER
FT	/note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT	modified_base 16..20
FT	/tag= c
FT	/mod_base= OTHER
FT	/note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX	
PN	WO2003000707-A2.
XX	
PD	03-JAN-2003.
XX	
PX	19-JUN-2002; 2002WO-US019664.
XX	
PR	21-JUN-2001; 2001US-00888360.
XX	
PA	(ISIS-) ISIS PHARM INC.
XX	
PI	Bennett FC, Dobie K;
XX	
DR	WPI; 2003-184032/18.

XX Novel antisense compounds targeted to nucleic acids encoding human
PT superoxide dismutase 1, for modulating expression of the dismutase and
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
PS Example 15; Page 77; 107pp; English.
XX
CC The invention relates to a compound of 8-50 nucleobases in length,
CC targeted to a nucleic acid molecule encoding human superoxide dismutase
CC 1. The compound specifically hybridises with and inhibits the expression
CC of human superoxide dismutase 1 by hybridising with at least an 8-
CC nucleobase portion of the nucleic acid molecule encoding the active site
CC of the enzyme. The activity of compounds of the invention may be
CC described as neuroprotective, cytostatic and antiinflammatory. The
CC mechanism of action of compounds of the invention is antisense inhibition
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC Compounds of the invention are useful for inhibiting the expression of
CC human superoxide dismutase 1 in human cells or tissues, and for treating
CC a disease or condition associated with this enzyme (antisense therapy),
CC especially amyotrophic lateral sclerosis, a disease or condition arising
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC used in diagnostics, therapeutics and as a research reagent, e.g.
CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. Sequences given in records ACC40880-ACC40957 represent human
CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
SQ Sequence 20 BP; 9 A; 2 C; 3 G; 6 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 795 AGAATTCCTGTCATTCAA 814
DB 20 AGAATTCCTGTCATTCAA 1
|||||

RESULT 67
ACC40937/c
ID ACC40937 standard; DNA; 20 BP.
XX
AC ACC40937;
XX
DT 23-MAY-2003 (first entry)
DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150491.
XX
KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= a
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
PN WO2003000707-A2.
XX

PD 03-JAN-2003.
XX
PF 19-JUN-2002; 2002WO-US019664.
XX
PR 21-JUN-2001; 2001US-00888360.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Bennett FC, Dobie K;
XX
DR WPI; 2003-184032/18.
XX
PT Novel antisense compounds targeted to nucleic acids encoding human
PT superoxide dismutase 1, for modulating expression of the dismutase and
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
PS Example 15; Page 77; 107pp; English.
XX
CC The invention relates to a compound of 8-50 nucleobases in length,
CC targeted to a nucleic acid molecule encoding human superoxide dismutase
CC 1. The compound specifically hybridises with and inhibits the expression
CC of human superoxide dismutase 1 by hybridising with at least an 8-
CC nucleobase portion of the nucleic acid molecule encoding the active site
CC of the enzyme. The activity of compounds of the invention may be
CC described as neuroprotective, cytostatic and antiinflammatory. The
CC mechanism of action of compounds of the invention is antisense inhibition
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC Compounds of the invention are useful for inhibiting the expression of
CC human superoxide dismutase 1 in human cells or tissues, and for treating
CC a disease or condition associated with this enzyme (antisense therapy),
CC especially amyotrophic lateral sclerosis, a disease or condition arising
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC used in diagnostics, therapeutics and as a research reagent, e.g.
CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. Sequences given in records ACC40880-ACC40957 represent human
CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
SQ Sequence 20 BP; 5 A; 4 C; 3 G; 8 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 820 TGAATAAAACCCCTGTATGG 839
DB 20 TGAATAAAACCCCTGTATGG 1
|||||

RESULT 68
ACC40909/c
ID ACC40909 standard; DNA; 20 BP.
XX
AC ACC40909;
XX
DT 23-MAY-2003 (first entry)
DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150463.
XX
KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT

FT modified_base 1. .5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16. .20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT
 PN W02003000707-A2.
 XX
 XX 03-JAN-2003.
 XX
 PF 19-JUN-2002; 2002WO-US019664.
 XX
 PR 21-JUN-2001; 2001US-00888360.
 XX
 PA (ISIS-) ISIS PHARM INC.
 XX
 PI Bennett FC, Dobie K;
 XX
 XX WPI; 2003-184032/18.
 DR
 XX
 XX Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 PT
 PS Claim 3; Page 77; 107pp; English.
 XX
 CC The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 504 GTGGTGTAAATGGATCGCC 523
 Db 20 GTGGTGTAAATGGATCGCC 1
 RESULT 69
 ACC40942/c
 ID ACC40942 standard; DNA; 20 BP.
 XX
 AC ACC40942;
 XX
 XX 23-MAY-2003 (first entry)
 DT
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150496.
 DE
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; inflammation; tumour;

XX
 SS.
 XX Homo sapiens.
 OS Synthetic.
 XX
 FH Key
 FT Location/Qualifiers
 FT modified_base 1. .20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1. .5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16. .20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX
 PN W02003000707-A2.
 XX
 XX 03-JAN-2003.
 XX
 PF 19-JUN-2002; 2002WO-US019664.
 XX
 PR 21-JUN-2001; 2001US-00888360.
 XX
 XX (ISIS-) ISIS PHARM INC.
 XX
 XX Bennett FC, Dobie K;
 XX
 XX WPI; 2003-184032/18.
 DR
 XX
 PT Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX
 PS Example 15; Page 77; 107pp; English.
 XX
 CC The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 7 A; 5 C; 3 G; 5 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 835 TATGGCACTTATTATGAGGC 854
 Db 20 TATGGCACTTATTATGAGGC 1
 RESULT 70
 ACC40902/c

ID ACC40902 standard; DNA; 20 BP.
 AC ACC40902;
 XX
 XX 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150456.
 DE
 DE Human, superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX
 XX Homo sapiens.
 OS Synthetic.
 OS
 XX
 FH Key Location/Qualifiers
 FT modified_base 1..20
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /*tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /*tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT WO2003000707-A2.
 PN
 XX
 XX 03-JAN-2003.
 XX
 XX 19-JUN-2002; 2002WO-US019664.
 PF
 XX
 XX 21-JUN-2001; 2001US-00888360.
 PR
 XX
 XX (ISIS-) ISIS PHARM INC.
 PA
 XX Bennett FC, Dobie K;
 PI
 XX WPI; 2003-184032/18.
 DR
 XX Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 PT
 XX Claim 3; Page 76; 107pp; English.
 PS
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 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 XX Sequence 20 BP; 3 A; 8 C; 3 G; 6 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 335 GACAAAGATGGTGTGCCGA 354
 Db 20 GACAAAGATGGTGTGCCGA 1
 RESULT 71
 ID ACC40919/c
 XX ACC40919 standard; DNA; 20 BP.
 AC ACC40919;
 XX
 XX 23-MAY-2003 (first entry)
 DT Human superoxide dismutase 1 antisense inhibitor # ISIS 150473.
 XX
 DE Human, superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX
 XX Homo sapiens.
 OS Synthetic.
 OS
 FH Key Location/Qualifiers
 FT modified_base 1..20
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /*tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /*tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT WO2003000707-A2.
 PN
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 XX 03-JAN-2003.
 XX
 XX 19-JUN-2002; 2002WO-US019664.
 PF
 XX
 XX 21-JUN-2001; 2001US-00888360.
 PR
 XX
 XX (ISIS-) ISIS PHARM INC.
 PA
 XX Bennett FC, Dobie K;
 PI
 XX WPI; 2003-184032/18.
 DR
 XX Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 PT
 XX Claim 3; Page 77; 107pp; English.
 PS
 XX The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 XX Sequence 20 BP; 3 A; 8 C; 3 G; 6 T; 0 U; 0 Other;

CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 8 A; 4 C; 2 G; 6 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 686 TTATGATCACTTGGAGATT 705
 Db 20 TTATGATCACTTGGAGATT 1
 RESULT 72
 ACC40921/c
 ID ACC40921 standard; DNA; 20 BP.
 XX AC ACC40921;
 DT 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150475.
 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 FT Key Location/Qualifiers
 FT modified_base 1..20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methycytosine"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT
 XX WO2003000707-A2.
 PN 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 XX (ISIS-) ISIS PHARM INC.
 PA Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 DR Novel antisense compounds targeted to nucleic acids encoding human
 XX superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX Example 15; Page 77; 107pp; English.
 PS
 XX

CC The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 8 A; 2 C; 2 G; 8 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 707 GTATAGTTTTTATAAACTCA 726
 Db 20 GTATAGTTTTTATAAACTCA 1
 RESULT 73
 ACC40885/c
 ID ACC40885 standard; DNA; 20 BP.
 XX AC ACC40885;
 XX 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150439.
 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 FT Key Location/Qualifiers
 FT modified_base 1..20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methycytosine"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT
 XX WO2003000707-A2.
 PN 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 XX (ISIS-) ISIS PHARM INC.
 PA

XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 XX
 PT Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX
 PS Claim 3; Page 76; 107pp; English.
 XX
 CC The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
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 CC described as neuroprotective, cytostatic and anti-inflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40890-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 3 A; 6 C; 6 G; 5 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 23 TGCAGTCCCTCGGAACACGAGGA 42
 DB 20 TGCAGTCCCTCGGAACACGAGGA 1
 RESULT 74
 ABZ79576
 ID ABZ79576 standard; DNA; 20 BP.
 XX
 AC ABZ79576;
 XX
 DT 23-MAY-2003 (first entry)
 DE Human superoxide dismutase 1 forward primer sequence.
 XX
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW anti-inflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW PCR; primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO2003000707-A2.
 XX
 PD 03-JAN-2003.
 XX
 PF 19-JUN-2002; 2002WO-US019664.
 XX
 PR 21-JUN-2001; 2001US-00888360.
 XX
 PA (ISIS-) ISIS PHARM INC.
 XX
 PI Bennett FC, Dobie K;
 XX
 DR WPI; 2003-184032/18.
 XX

PT Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX
 PS Example 13; Page 74; 107pp; English.
 XX
 CC The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
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 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. The current sequence represents the human superoxide dismutase
 CC 1 forward primer sequence
 XX
 SQ Sequence 20 BP; 3 A; 4 C; 8 G; 5 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 49 CGTGGCCTAGCGAGTTATGG 68
 DB 1 CGTGGCCTAGCGAGTTATGG 20
 RESULT 75
 ABZ79577/c
 ID ABZ79577 standard; DNA; 20 BP.
 XX
 AC ABZ79577;
 XX
 DT 23-MAY-2003 (first entry)
 DE Human superoxide dismutase 1 reverse primer sequence.
 XX
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW anti-inflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW PCR; primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO2003000707-A2.
 XX
 PD 03-JAN-2003.
 XX
 PF 19-JUN-2002; 2002WO-US019664.
 XX
 PR 21-JUN-2001; 2001US-00888360.
 XX
 PA (ISIS-) ISIS PHARM INC.
 XX
 PI Bennett FC, Dobie K;
 XX
 DR WPI; 2003-184032/18.
 XX
 PT Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX
 PS Example 13; Page 74; 107pp; English.

XX The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
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 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
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 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. The current sequence represents the human superoxide dismutase
 CC 1 forward primer sequence
 XX
 SQ Sequence 20 BP; 6 A; 4 C; 5 G; 5 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 108 TGCAGGGCATCATCAATTC 127
 DB 20 TGCAGGGCATCATCAATTC 1
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 RESULT 76
 ACC40900/c
 ID ACC40900 standard; DNA; 20 BP.
 XX
 AC ACC40900;
 DT 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150454.
 DE
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT modified_base 1..20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylycytosine"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT
 XX WO200300707-A2.
 PN
 XX 03-JAN-2003.
 XX
 XX 19-JUN-2002; 2002WO-US019664.
 XX
 XX 21-JUN-2001; 2001US-00888360.
 PR
 XX

PA (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 DR
 XX Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX Claim 3; Page 76; 107pp; English.
 PS
 XX The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
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 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 5 A; 8 C; 3 G; 4 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 304 GCATGTTGGAGACTTGGGCA 323
 DB 20 GCATGTTGGAGACTTGGGCA 1
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 RESULT 77
 ACC40938/c
 ID ACC40938 standard; DNA; 20 BP.
 XX
 AC ACC40938;
 XX
 XX 23-MAY-2003 (first entry)
 DT
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150492.
 DE
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT modified_base 1..20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylycytosine"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
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FT /mod_base= OTHER
XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"
PN WO2003000707-A2.
XX
XX 03-JAN-2003.
XX
XX 19-JUN-2002; 2002WO-US019664.
XX
XX 21-JUN-2001; 2001US-00888360.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
XX Example 15; Page 77; 107pp; English.
XX
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
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XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
SQ Sequence 20 BP; 5 A; 3 C; 5 G; 7 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 825 AAAACCCCTGTATGGCACTT 844
Db 20 AAAACCCCTGTATGGCACTT 1

RESULT 78
ACC40939/c
ID ACC40939 standard; DNA; 20 BP.
XX
XX ACC40939;
XX
XX 23-MAY-2003 (first entry)
XX
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150493.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX
XX Homo sapiens.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers

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FT modified_base 1..20
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FT methylcytosine"
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
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XX
XX WO2003000707-A2.
XX
XX 03-JAN-2003.
XX
XX 19-JUN-2002; 2002WO-US019664.
XX
XX 21-JUN-2001; 2001US-00888360.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
XX Example 15; Page 77; 107pp; English.
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XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
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XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
SQ Sequence 20 BP; 7 A; 3 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 829 ACCCTGTATGGCACTTATTA 848
Db 20 ACCCTGTATGGCACTTATTA 1

RESULT 79
ACC40905/c
ID ACC40905 standard; DNA; 20 BP.
XX
XX ACC40905;
XX
XX 23-MAY-2003 (first entry)
XX

```

DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150459.
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX Key Location/Qualifiers
 XX modified_base 1..20
 FT /*tag= a
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 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX WO2003000707-A2.
 XX 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 XX Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX Claim 3; Page 77; 107pp; English.
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 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
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 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
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 CC human superoxide dismutase 1 in human cells or tissues, and for treating
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 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX Sequence 20 BP; 7 A; 8 C; 3 G; 2 T; 0 U; 0 Other;
 SQ
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 |||||||||||||||||||||

Db 20 TGGTGTGGCCGATGTGCTA 1
 RESULT 80
 ACC40918/c
 ID ACC40918 standard; DNA; 20 BP.
 XX ACC40918;
 AC 23-MAY-2003 (first entry)
 DT Human superoxide dismutase 1 antisense inhibitor # ISIS 150472.
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX Key Location/Qualifiers
 XX modified_base 1..20
 FT /*tag= a
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 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
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 XX WO2003000707-A2.
 XX 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
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 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
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 CC a disease or condition associated with this enzyme (antisense therapy),
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 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour

CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 7 A; 5 C; 1 G; 7 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 671 TAGTGAGAACTGATTATG 690
 Db 20 TAGTGAGAACTGATTATG 1
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 RESULT 81
 ID ACC40934/c
 ID ACC40934 standard; DNA; 20 BP.
 XX
 AC ACC40934;
 XX
 DT 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150488.
 DE
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
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 OS Synthetic.
 OS
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 FT modified_base 1..20
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX
 PN WO2003000707-A2.
 XX
 PD 03-JAN-2003.
 XX
 PF 19-JUN-2002; 2002WO-US019664.
 XX
 PR 21-JUN-2001; 2001US-00888360.
 XX
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 XX
 DR Novel antisense compounds targeted to nucleic acids encoding human
 FT superoxide dismutase 1, for modulating expression of the dismutase and
 FT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX
 PS Claim 3; Page 77; 107pp; English.
 CC
 XX The invention relates to a compound of 8-50 nucleobases in length,
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 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be

CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 3 A; 3 C; 5 G; 9 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 812 CAAGCCTGTGAATAAAACC 831
 Db 20 CAAGCCTGTGAATAAAACC 1
 |||||
 RESULT 82
 ID ACC40941/c
 ID ACC40941 standard; DNA; 20 BP.
 XX
 AC ACC40941;
 XX
 DT 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150495.
 DE
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 OS
 XX
 FT Key Location/Qualifiers
 FT modified_base 1..20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX
 PN WO2003000707-A2.
 XX
 PD 03-JAN-2003.
 XX
 PF 19-JUN-2002; 2002WO-US019664.
 XX
 PR 21-JUN-2001; 2001US-00888360.
 XX
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 XX
 DR Novel antisense compounds targeted to nucleic acids encoding human
 FT superoxide dismutase 1, for modulating expression of the dismutase and
 FT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX
 PS Claim 3; Page 77; 107pp; English.
 CC
 XX The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be

PT superoxide dismutase 1, for modulating expression of the dismutase and
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
PS Claim 3; Page 77; 107pp; English.
XX
CC The invention relates to a compound of 8-50 nucleobases in length,
CC targeted to a nucleic acid molecule encoding human superoxide dismutase
CC 1. The compound specifically hybridises with and inhibits the expression
CC of human superoxide dismutase 1 by hybridising with at least an 8-
CC nucleobase portion of the nucleic acid molecule encoding the active site
CC of the enzyme. The activity of compounds of the invention may be
CC described as neuroprotective, cytostatic and antiinflammatory. The
CC mechanism of action of compounds of the invention is antisense inhibition
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC Compounds of the invention are useful for inhibiting the expression of
CC human superoxide dismutase 1 in human cells or tissues, and for treating
CC a disease or condition associated with this enzyme (antisense therapy),
CC especially amyotrophic lateral sclerosis, a disease or condition arising
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC used in diagnostics, therapeutics and as a research reagent, e.g.
CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. Sequences given in records ACC40880-ACC40957 represent human
CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
SQ Sequence 20 BP; 8 A; 5 C; 2 G; 5 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 833 TGTATGGCACTTATTATGAG 852
DB 20 TGTATGGCACTTATTATGAG 1
|||||
RESULT 83
ACC40895/c
ID ACC40895 standard; DNA; 20 BP.
XX
AC ACC40895;
XX
XX 23-MAY-2003 (first entry)
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150449.
XX
DE
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX Homo sapiens.
XX Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
XX WO2003000707-A2.
XX
XX 03-JAN-2003.
XX

PF 19-JUN-2002; 2002WO-US019664.
XX
PR 21-JUN-2001; 2001US-00888360.
XX
PA (ISIS-) ISIS PHARM INC.
XX
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX
PT Novel antisense compounds targeted to nucleic acids encoding human
PT superoxide dismutase 1, for modulating expression of the dismutase and
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
PS Example 15; Page 76; 107pp; English.
XX
CC The invention relates to a compound of 8-50 nucleobases in length,
CC targeted to a nucleic acid molecule encoding human superoxide dismutase
CC 1. The compound specifically hybridises with and inhibits the expression
CC of human superoxide dismutase 1 by hybridising with at least an 8-
CC nucleobase portion of the nucleic acid molecule encoding the active site
CC of the enzyme. The activity of compounds of the invention may be
CC described as neuroprotective, cytostatic and antiinflammatory. The
CC mechanism of action of compounds of the invention is antisense inhibition
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC Compounds of the invention are useful for inhibiting the expression of
CC human superoxide dismutase 1 in human cells or tissues, and for treating
CC a disease or condition associated with this enzyme (antisense therapy),
CC especially amyotrophic lateral sclerosis, a disease or condition arising
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC used in diagnostics, therapeutics and as a research reagent, e.g.
CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. Sequences given in records ACC40880-ACC40957 represent human
CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
SQ Sequence 20 BP; 3 A; 6 C; 4 G; 7 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 173 AAAGGACTGACTGAGGCCT 192
DB 20 AAAGGACTGACTGAGGCCT 1
|||||
RESULT 84
ACC40901/c
ID ACC40901 standard; DNA; 20 BP.
XX
AC ACC40901;
XX
XX 23-MAY-2003 (first entry)
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150455.
XX
DE
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX Homo sapiens.
XX Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT modified_base 1..5
FT /*tag= b
FT

AC ACC40929;
 XX 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150483.
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytosstatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 OS
 XX Key Location/Qualifiers
 XX modified_base 1..20
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /*tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /*tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT WO2003000707-A2.
 XX 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 XX Novel antisense compounds targeted to nucleic acids encoding human
 XX superoxide dismutase 1, for modulating expression of the dismutase and
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX Example 15; Page 77; 107pp; English.
 XX The invention relates to a compound of 8-50 nucleobases in length,
 XX targeted to a nucleic acid molecule encoding human superoxide dismutase
 XX 1. The compound specifically hybridises with and inhibits the expression
 XX of human superoxide dismutase 1 by hybridising with at least an 8-
 XX nucleobase portion of the nucleic acid molecule encoding the active site
 XX of the enzyme. The activity of compounds of the invention may be
 XX described as neuroprotective, cytostatic and antiinflammatory. The
 XX mechanism of action of compounds of the invention is antisense inhibition
 XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
 XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 XX Compounds of the invention are useful for inhibiting the expression of
 XX human superoxide dismutase 1 in human cells or tissues, and for treating
 XX a disease or condition associated with this enzyme (antisense therapy),
 XX especially amyotrophic lateral sclerosis, a disease or condition arising
 XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
 XX used in diagnostics, therapeutics and as a research reagent, e.g.
 XX prophylactically to prevent or delay infection, inflammation or tumour
 XX formation. Sequences given in records ACC40880-ACC40957 represent human
 XX superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX Sequence 20 BP; 6 A; 4 C; 3 G; 7 T; 0 U; 0 Other;
 XX Query Match 2.3%; Score 20; DB 1; Length 20;
 XX Best Local Similarity 100.0%; Pred. No. 60;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 771 TCACAGATGGTATTAACT 790
 ID ACC40924 standard; DNA; 20 BP.
 Db 20 TCACAGATGGTATTAACT 1
 RESULT 87
 ACC40924/c
 ID ACC40924 standard; DNA; 20 BP.
 XX ACC40924;
 AC
 XX 23-MAY-2003 (first entry)
 DT Human superoxide dismutase 1 antisense inhibitor # ISIS 150478.
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytosstatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 OS
 XX Key Location/Qualifiers
 XX modified_base 1..20
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /*tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /*tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT WO2003000707-A2.
 XX 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 XX Novel antisense compounds targeted to nucleic acids encoding human
 XX superoxide dismutase 1, for modulating expression of the dismutase and
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX Example 15; Page 77; 107pp; English.
 XX The invention relates to a compound of 8-50 nucleobases in length,
 XX targeted to a nucleic acid molecule encoding human superoxide dismutase
 XX 1. The compound specifically hybridises with and inhibits the expression
 XX of human superoxide dismutase 1 by hybridising with at least an 8-
 XX nucleobase portion of the nucleic acid molecule encoding the active site
 XX of the enzyme. The activity of compounds of the invention may be
 XX described as neuroprotective, cytostatic and antiinflammatory. The
 XX mechanism of action of compounds of the invention is antisense inhibition
 XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
 XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 XX Compounds of the invention are useful for inhibiting the expression of
 XX human superoxide dismutase 1 in human cells or tissues, and for treating
 XX a disease or condition associated with this enzyme (antisense therapy),
 XX especially amyotrophic lateral sclerosis, a disease or condition arising
 XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
 XX used in diagnostics, therapeutics and as a research reagent, e.g.
 XX prophylactically to prevent or delay infection, inflammation or tumour
 XX formation. Sequences given in records ACC40880-ACC40957 represent human
 XX superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX Sequence 20 BP; 6 A; 4 C; 3 G; 7 T; 0 U; 0 Other;
 XX Query Match 2.3%; Score 20; DB 1; Length 20;
 XX Best Local Similarity 100.0%; Pred. No. 60;

CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 9 A; 3 C; 2 G; 6 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 727 GTTAAATGCTGTTTCAAT 746
 Db 20 GTTAAATGCTGTTTCAAT 1
 RESULT 88
 ACC40925/c
 ID ACC40925 standard; DNA; 20 BP.
 XX ACC40925;
 DT 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150479.
 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX Key Location/Qualifiers
 FH modified_base 1..20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX WO2003000707-A2.
 XX 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 XX Novel antisense compounds targeted to nucleic acids encoding human
 FT superoxide dismutase 1, for modulating expression of the dismutase and
 FT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 PS Example 15; Page 77; 107pp; English.
 XX The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase

CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 8 A; 3 C; 2 G; 7 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 729 TAAATGCTGTTTCAATGA 748
 Db 20 TAAATGCTGTTTCAATGA 1
 RESULT 89
 ACC40926/c
 ID ACC40926 standard; DNA; 20 BP.
 XX ACC40926;
 DT 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150480.
 DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX Key Location/Qualifiers
 FH modified_base 1..20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX WO2003000707-A2.
 XX 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 PI

XX WPI; 2003-184032/18.

XX Novel antisense compounds targeted to nucleic acids encoding human

XX superoxide dismutase 1, for modulating expression of the dismutase and

XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

XX Claim 3; Page 77; 107pp; English.

XX The invention relates to a compound of 8-50 nucleobases in length,

XX targeted to a nucleic acid molecule encoding human superoxide dismutase

XX 1. The compound specifically hybridises with and inhibits the expression

XX of human superoxide dismutase 1 by hybridising with at least an 8-

XX nucleobase portion of the nucleic acid molecule encoding the active site

XX of the enzyme. The activity of compounds of the invention may be

XX described as neuroprotective, cytostatic and antiinflammatory. The

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XX of human superoxide dismutase 1 expression by chimeric phosphorothioate

XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.

XX Compounds of the invention are useful for inhibiting the expression of

XX human superoxide dismutase 1 in human cells or tissues, and for treating

XX a disease or condition associated with this enzyme (antisense therapy),

XX especially amyotrophic lateral sclerosis, a disease or condition arising

XX from aberrant apoptosis and a hyperproliferative disorder. It may also be

XX used in diagnostics, therapeutics and as a research reagent, e.g.

XX prophylactically to prevent or delay infection, inflammation or tumour

XX formation. Sequences given in records ACC40880-ACC40957 represent human

XX superoxide dismutase 1 antisense inhibitor oligonucleotides

XX Sequence 20 BP; 9 A; 3 C; 4 G; 4 T; 0 U; 0 Other;

XX

Query Match 2.3%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 60;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 736 TCTGTTTCATGACCTGTAT 755

DB 20 TCTGTTTCATGACCTGTAT 1

RESULT 90

ACC40888/c

ID ACC40888 standard; DNA; 20 BP.

XX ACC40888;

XX 23-MAY-2003 (first entry)

XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150442.

XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;

XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;

XX hyperproliferative disorder; therapy; infection; inflammation; tumour;

XX ss.

XX Homo sapiens.

XX Synthetic.

XX Key Location/Qualifiers

XX modified_base 1..20

XX /tag= a

XX /mod_base= OTHER

XX /note= "Phosphorothioate linkages. All cytosines are 5-

XX methylcytosine"

XX modified_base 1..5

XX /tag= b

XX /mod_base= OTHER

XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"

XX modified_base 16..20

XX /tag= c

XX /mod_base= OTHER

XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"

XX

PN WO2003000707-A2.

XX 03-JAN-2003.

XX 19-JUN-2002; 2002WO-US019664.

XX 21-JUN-2001; 2001US-00888360.

XX (ISIS-) ISIS PHARM INC.

XX Bennett FC, Dobie K;

XX WPI; 2003-184032/18.

XX Novel antisense compounds targeted to nucleic acids encoding human

XX superoxide dismutase 1, for modulating expression of the dismutase and

XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

XX Example 15; Page 76; 107pp; English.

XX The invention relates to a compound of 8-50 nucleobases in length,

XX targeted to a nucleic acid molecule encoding human superoxide dismutase

XX 1. The compound specifically hybridises with and inhibits the expression

XX of human superoxide dismutase 1 by hybridising with at least an 8-

XX nucleobase portion of the nucleic acid molecule encoding the active site

XX of the enzyme. The activity of compounds of the invention may be

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XX mechanism of action of compounds of the invention is antisense inhibition

XX of human superoxide dismutase 1 expression by chimeric phosphorothioate

XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.

XX Compounds of the invention are useful for inhibiting the expression of

XX human superoxide dismutase 1 in human cells or tissues, and for treating

XX a disease or condition associated with this enzyme (antisense therapy),

XX especially amyotrophic lateral sclerosis, a disease or condition arising

XX from aberrant apoptosis and a hyperproliferative disorder. It may also be

XX used in diagnostics, therapeutics and as a research reagent, e.g.

XX prophylactically to prevent or delay infection, inflammation or tumour

XX formation. Sequences given in records ACC40880-ACC40957 represent human

XX superoxide dismutase 1 antisense inhibitor oligonucleotides

XX Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other;

XX

Query Match 2.3%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 60;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 53 GCCTAGCGAGTTATGCGGAC 72

DB 20 GCCTAGCGAGTTATGCGGAC 1

RESULT 91

ACC40891/c

ID ACC40891 standard; DNA; 20 BP.

XX ACC40891;

XX 23-MAY-2003 (first entry)

XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150445.

XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;

XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;

XX hyperproliferative disorder; therapy; infection; inflammation; tumour;

XX ss.

XX Homo sapiens.

XX Synthetic.

XX Key Location/Qualifiers

XX modified_base 1..20

XX /tag= a

XX /mod_base= OTHER

FT modified_base /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT 1..5
FT /tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
PN 03-JAN-2003.
XX 19-JUN-2002; 2002WO-US019664.
XX 21-JUN-2001; 2001US-00888360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
PI WPI; 2003-184032/18.
XX Novel antisense compounds targeted to nucleic acids encoding human
PT superoxide dismutase 1, for modulating expression of the dismutase and
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX Claim 3; Page 76; 107pp; English.
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
SQ Sequence 20 BP; 3 A; 7 C; 2 G; 8 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 135 AGGAAGTAATGACCAAGT 154
DB 20 AGGAAGTAATGACCAAGT 1
RESULT 92
ACCA0917/C
ID ACC40917 standard; DNA; 20 BP.
XX AC
XX ACC40917;
XX 23-MAY-2003 (first entry)
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150471.
DE Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;

KW antinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX Homo sapiens.
OS Synthetic.
XX Key Location/Qualifiers
FT modified_base 1..20
FT /tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT modified_base 1..5
FT /tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /tag= c
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
XX 03-JAN-2003.
XX 19-JUN-2002; 2002WO-US019664.
XX 21-JUN-2001; 2001US-00888360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX Novel antisense compounds targeted to nucleic acids encoding human
PT superoxide dismutase 1, for modulating expression of the dismutase and
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX Example 15; Page 77; 107pp; English.
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
SQ Sequence 20 BP; 7 A; 5 C; 1 G; 7 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 670 GTAGTGAGAACTGATTAT 689
DB 20 GTAGTGAGAACTGATTAT 1

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RESULT 93
ACC40922/c
ID ACC40922 standard; DNA; 20 BP.
XX AC ACC40922;
XX DT 23-MAY-2003 (first entry)
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150476.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX OS Homo sapiens.
XX OS Synthetic.
XX FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
XX PN
XX PD 03-JAN-2003.
XX PF 19-JUN-2002; 2002WO-US019664.
XX PR 21-JUN-2001; 2001US-00888360.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Bennett FC, Dobie K;
XX DR WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX Example 15; Page 77; 107pp; English.
XX
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides

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```

SQ Sequence 20 BP; 9 A; 2 C; 2 G; 7 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 710 TAGTTTTATATAAACTCAGTT 729
Db 20 TAGTTTTATATAAACTCAGTT 1
RESULT 94
ACC40923/c
ID ACC40923 standard; DNA; 20 BP.
XX AC ACC40923;
XX DT 23-MAY-2003 (first entry)
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150477.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX OS Homo sapiens.
XX OS Synthetic.
XX FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
XX PN
XX PD 03-JAN-2003.
XX PF 19-JUN-2002; 2002WO-US019664.
XX PR 21-JUN-2001; 2001US-00888360.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Bennett FC, Dobie K;
XX DR WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX Example 15; Page 77; 107pp; English.
XX
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate

```

CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisenase therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 7 A; 3 C; 3 G; 7 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 721 AACTCAGTTAAATGCTGT 740.
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 Db 20 AACTCAGTTAAATGCTGT 1

RESULT 95
 ACC40935/c
 ID ACC40935 standard; DNA; 20 BP.

AC ACC40935;
 DT 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150489.
 DE
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytosstatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.

XX Key Location/Qualifiers
 FT modified_base 1..20
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /*tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /*tag= c
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XX WO2003000707-A2.
 PN
 XX 03-JAN-2003.
 XX
 XX 19-JUN-2002; 2002WO-US019664.
 XX
 XX 21-JUN-2001; 2001US-00888360.
 XX
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX
 XX WPI; 2003-184032/18.
 XX
 XX Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX

PS Example 15; Page 77; 107pp; English.

XX The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytosstatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisenase therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX

SQ Sequence 20 BP; 4 A; 3 C; 5 G; 8 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 814 AGCCTGTGTAATAAACCCCT 833
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 Db 20 AGCCTGTGTAATAAACCCCT 1

RESULT 96
 ACC40881/c
 ID ACC40881 standard; DNA; 20 BP.

AC ACC40881;
 DT 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 146144.
 DE
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytosstatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.

XX Key Location/Qualifiers
 FT modified_base 1..20
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /*tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /*tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

XX WO2003000707-A2.
 PN
 XX 03-JAN-2003.
 XX
 XX 19-JUN-2002; 2002WO-US019664.
 XX
 XX 21-JUN-2001; 2001US-00888360.
 XX

XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 XX Novel antisense compounds targeted to nucleic acids encoding human
 XX superoxide dismutase 1, for modulating expression of the dismutase and
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX Example 15; Page 76; 107pp; English.
 XX The invention relates to a compound of 8-50 nucleobases in length,
 XX targeted to a nucleic acid molecule encoding human superoxide dismutase
 XX 1. The compound specifically hybridises with and inhibits the expression
 XX of human superoxide dismutase 1 by hybridising with at least an 8-
 XX nucleobase portion of the nucleic acid molecule encoding the active site
 XX of the enzyme. The activity of compounds of the invention may be
 XX described as neuroprotective, cytostatic and antiinflammatory. The
 XX mechanism of action of compounds of the invention is antisense inhibition
 XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
 XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 XX Compounds of the invention are useful for inhibiting the expression of
 XX human superoxide dismutase 1 in human cells or tissues, and for treating
 XX a disease or condition associated with this enzyme (antisense therapy),
 XX especially amyotrophic lateral sclerosis, a disease or condition arising
 XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
 XX used in diagnostics, therapeutics and as a research reagent, e.g.
 XX prophylactically to prevent or delay infection, inflammation or tumour
 XX formation. Sequences given in records ACC40880-ACC40957 represent human
 XX superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX Sequence 20 BP; 4 A; 9 C; 5 G; 2 T; 0 U; 0 Other;
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 XX Query Match 2.3%; Score 20; DB 1; Length 20;
 XX Best Local Similarity 100.0%; Pred. No. 60;
 XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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 XX 78 CCGTGTGCGTGTGAAGGCG 97
 XX 20 CCGTGTGCGTGTGAAGGCG 1
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 XX RESULT 97
 XX ACC40890/c
 XX ID ACC40890 standard; DNA; 20 BP.
 XX AC ACC40890;
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 XX 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150444.
 XX
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
 XX ss.
 XX Homo sapiens.
 XX OS Synthetic.
 XX
 XX Key Location/Qualifiers
 XX modified_base 1..20
 XX /tag= a
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 XX methylcytosine"
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 PN PN
 XX XX
 PD PD
 XX XX
 PF 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 PR (ISIS-) ISIS PHARM INC.
 PA Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 DR Novel antisense compounds targeted to nucleic acids encoding human
 XX superoxide dismutase 1, for modulating expression of the dismutase and
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX Claim 3; Page 76; 107pp; English.
 PS The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX Sequence 20 BP; 5 A; 5 C; 4 G; 6 T; 0 U; 0 Other;
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 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 106 AGTGCAGGCATCATCAATT 125
 Db 20 AGTGCAGGCATCATCAATT 1
 RESULT 98
 ACC40906/c
 ID ACC40906 standard; DNA; 20 BP.
 XX ACC40906;
 AC ACC40906;
 XX
 XX 23-MAY-2003 (first entry)
 DT Human superoxide dismutase 1 antisense inhibitor # ISIS 150460.
 XX
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
 XX ss.
 XX Homo sapiens.
 OS Synthetic.
 OS

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FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT modified_base 1..5
FT /tag= b
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
XX 03-JAN-2003.
XX 19-JUN-2002; 2002WO-US019664.
XX 21-JUN-2001; 2001US-00888360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX Example 15; Page 77; 107pp; English.
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX Sequence 20 BP; 5 A; 7 C; 5 G; 3 T; 0 U; 0 Other;
SQ Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 404 ATTGGCCGCACACTGGTGGT 423
Db 20 ATTGGCCGCACACTGGTGGT 1
RESULT 99
ACC40910/c
ID ACC40910 standard; DNA; 20 BP.
XX ACC40910;
XX ACC
XX 23-MAY-2003 (first entry)

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XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150464.
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX Homo sapiens.
XX Synthetic.
XX Key Location/Qualifiers
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XX /tag= a
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XX WO2003000707-A2.
XX 03-JAN-2003.
XX 19-JUN-2002; 2002WO-US019664.
XX 21-JUN-2001; 2001US-00888360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX Claim 3; Page 77; 107pp; English.
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX Sequence 20 BP; 4 A; 2 C; 7 G; 7 T; 0 U; 0 Other;
SQ Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 517 GATGCCCCATTAACATTCC 536

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Db 20 GATCGCCCAATAAATTC 1

RESULT 100
ACC40933/C
ID ACC40933 standard; DNA; 20 BP.
XX AC ACC40933;
XX DT 23-MAY-2003 (first entry)
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150487.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 1..5
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /*tag= c
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XX WO2003000707-A2.
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XX 03-JAN-2003.
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XX 19-JUN-2002; 2002WO-US019664.
XX
XX 21-JUN-2001; 2001US-00888360.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett FC, Dobie K;
XX
XX WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
PT superoxide dismutase 1, for modulating expression of the dismutase and
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
XX Example 15; Page 77; 107pp; English.
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XX The invention relates to a compound of 8-50 nucleobases in length,
CC targeted to a nucleic acid molecule encoding human superoxide dismutase
CC 1. The compound specifically hybridises with and inhibits the expression
CC of human superoxide dismutase 1 by hybridising with at least an 8-
CC nucleobase portion of the nucleic acid molecule encoding the active site
CC of the enzyme. The activity of compounds of the invention may be
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CC mechanism of action of compounds of the invention is antisense inhibition
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC Compounds of the invention are useful for inhibiting the expression of
CC human superoxide dismutase 1 in human cells or tissues, and for treating
CC a disease or condition associated with this enzyme (antisense therapy),
CC especially amyotrophic lateral sclerosis, a disease or condition arising
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC used in diagnostics, therapeutics and as a research reagent, e.g.

CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. Sequences given in records ACC40880-ACC40957 represent human
CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
XX Sequence 20 BP; 7 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 805 TGTCAATTCAGGCTGTGAAT 824
Db 20 TGTCAATTCAGGCTGTGAAT 1

RESULT 101
ACC40880/C
ID ACC40880 standard; DNA; 20 BP.
XX AC ACC40880;
XX DT 23-MAY-2003 (first entry)
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 146143.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
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XX WO2003000707-A2.
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XX 03-JAN-2003.
XX
XX 19-JUN-2002; 2002WO-US019664.
XX
XX 21-JUN-2001; 2001US-00888360.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett FC, Dobie K;
XX
XX WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
PT superoxide dismutase 1, for modulating expression of the dismutase and
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
XX Claim 3; Page 76; 107pp; English.
XX
XX The invention relates to a compound of 8-50 nucleobases in length,
CC targeted to a nucleic acid molecule encoding human superoxide dismutase
CC 1. The compound specifically hybridises with and inhibits the expression
CC of human superoxide dismutase 1 by hybridising with at least an 8-
CC nucleobase portion of the nucleic acid molecule encoding the active site
CC of human superoxide dismutase 1 by hybridising with at least an 8-
CC nucleobase portion of the nucleic acid molecule encoding the active site

CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 4 A; 9 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 73 GAAGGCCGTGTGGTGCTGA 92
 |||||
 Db 20 GAAGGCCGTGTGGTGCTGA 1
 |||||

RESULT 102
 ACC40907/c
 ID ACC40907 standard; DNA; 20 BP.
 XX
 AC ACC40907;
 XX
 DT 23-MAY-2003 (first entry)
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150461.
 XX
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT modified_base 1..20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX WO2003000707-A2.
 XX
 XX 03-JAN-2003.
 PD
 PF 19-JUN-2002; 2002WO-US019664.
 XX
 XX 21-JUN-2001; 2001US-00888360.
 PR
 XX (ISIS-) ISIS PHARM INC.
 PA
 XX Bennett FC, Dobie K;
 PI
 XX WPI; 2003-184032/18.
 DR
 XX

PT Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX
 PS Claim 3; Page 77; 107pp; English.
 XX
 CC The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 4 A; 6 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 409 CGCACACTGTGTGCCATG 428
 |||||
 Db 20 CGCACACTGTGTGCCATG 1
 |||||

RESULT 103
 ACC40927/c
 ID ACC40927 standard; DNA; 20 BP.
 XX
 AC ACC40927;
 XX
 DT 23-MAY-2003 (first entry)
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150481.
 XX
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT modified_base 1..20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX WO2003000707-A2.
 XX
 XX 03-JAN-2003.
 PD

XX
PF 19-JUN-2002; 2002WO-US019664.
XX
PR 21-JUN-2001; 2001US-00888360.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Bennett FC, Dobie K;
XX
XX WPI; 2003-184032/18.
DR
XX Novel antisense compounds targeted to nucleic acids encoding human
PT superoxide dismutase 1, for modulating expression of the dismutase and
PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
PS Claim 3; Page 77; 107pp; English.
XX
CC The invention relates to a compound of 8-50 nucleobases in length,
CC targeted to a nucleic acid molecule encoding human superoxide dismutase
CC 1. The compound specifically hybridises with and inhibits the expression
CC of human superoxide dismutase 1 by hybridising with at least an 8-
CC nucleobase portion of the nucleic acid molecule encoding the active site
CC of the enzyme. The activity of compounds of the invention may be
CC described as neuroprotective, cyrostatic and antiinflammatory. The
CC mechanism of action of compounds of the invention is antisense inhibition
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC Compounds of the invention are useful for inhibiting the expression of
CC human superoxide dismutase 1 in human cells or tissues, and for treating
CC a disease or condition associated with this enzyme (antisense therapy),
CC especially amyotrophic lateral sclerosis, a disease or condition arising
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC used in diagnostics, therapeutics and as a research reagent, e.g.
CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. Sequences given in records ACC40880-ACC40957 represent human
CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
SQ Sequence 20 BP; 4 A; 4 C; 4 G; 8 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 761 CAGACTTAATACACAGATGG 780
DB 20 CAGACTTAATACACAGATGG 1
RESULT 104
ADQ80681/C
ID ADQ80681 standard; DNA; 20 BP.
XX
AC ADQ80681;
XX
XX 21-OCT-2004 (first entry)
XX
XX Human cytosolic superoxide dismutase 1 RT-PCR primer, hSODc-antisense.
XX
XX Survival; neuron; tyrosine hydroxylase; tyrosine 3-monooxygenase; TH;
XX anti-apoptotic; Bcl-XL; neurological disorder; neuroprotective;
XX norepinephrine; antiparkinsonian; transplantation; drug screening;
XX gene profiling; CNS disorder; neurodegenerative disease; primer; ss;
XX hSOD1; RT-PCR; human.
XX
XX Homo sapiens.
XX
XX WO2004062554-A2.
XX
XX 29-JUL-2004.
XX
XX 07-JAN-2004; 2004WO-DK000008.
XX
XX 08-JAN-2003; 2003US-0438719P.

PR 11-APR-2003; 2003DK-00000581.
XX 22-APR-2003; 2003US-0464546P.
XX (NSGE-) NSGENE AS.
XX Martinez-Serrano A, Liste I, Villa A;
XX WPI; 2004-544027/52.
DR
XX
XX Enhancing the survival of neurons or cells expressing tyrosine
PT hydroxylase (TH) for treating neurodegenerative disorders, comprises
PT contacting neurons or TH expressing cells with Bcl-XL or its functional
PT equivalent.
XX
PS Example 2; Page 42; 108pp; English.
XX
XX The invention relates to a novel method for enhancing the survival of
XX neurons and/or of cells expressing tyrosine hydroxylase (EC 1.14.16.2 -
XX tyrosine 3-monooxygenase) (TH+). The method comprises contacting a
XX population of cells with Bcl-XL or its functional equivalent, where the
XX population of cells is selected from: neurons or cells capable of
XX differentiating into neurons; or TH expressing cells or cells capable of
XX differentiating into TH expressing cells. The invention further
XX comprises: a composition of cells obtainable by the method above; a
XX composition of isolated mammalian cells overexpressing the anti-apoptotic
XX Bcl-XL protein; a neural progenitor cell; a differentiated dopaminergic
XX neuron; an implantable cell culture device comprising: a semi-permeable
XX membrane permitting the diffusion of a biologically active protein
XX through it; and a composition of cells selected from above; a lentiviral
XX vector particle being produced based on a lentiviral transfer vector;
XX enhancing the survival of TH+ cells in vivo; a retroviral particle being
XX produced based on a retroviral transfer vector; enhancing the survival of
XX in vivo differentiated dopaminergic neurons; a packaging cell line
XX capable of producing an infective vector particle; a packaging cell line
XX capable of producing an infective vector particle; treatment of a
XX neurological disorder; a fusion protein comprising the Bcl-XL sequence
XX comprising 233 amino acids ADQ80670 or its functional equivalent and a
XX membrane translocation signal; an expression vector comprising a
XX polynucleotide sequence coding for the fusion protein and a promoter
XX sequence capable of directing the expression of the fusion protein in a
XX host cell; a host cell comprising the expression vector; and producing
XX the fusion protein. The compositions of the invention have
XX neuroprotective, neurotropic, and antiparkinsonian activities. The cells
XX are useful for transplantation, drug screening, gene profiling, or for
XX the preparation of a medicament useful for the treatment of a CNS
XX disorder. The CNS disorder is a neurodegenerative disease involving
XX lesioned and traumatic neurons, including traumatic lesions of peripheral
XX nerves, the medulla, the spinal chord, cerebral ischaemic neuronal
XX damage, neuropathy, peripheral neuropathy, Alzheimer's disease,
XX Huntington's disease, Parkinson's disease, amyotrophic lateral sclerosis,
XX or memory impairment connected to dementia. The method is useful for
XX enhancing the survival of neurons and/or of cells expressing tyrosine
XX hydroxylase for the treatment of neurodegenerative disorders. This
XX polynucleotide sequence represents a primer used in the exemplification
XX of the invention.
XX
SQ Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 538 TTGGATGTAGTCTGAGGCC 557
DB 20 TTGGATGTAGTCTGAGGCC 1
RESULT 105
ADR42714
ID ADR42714 standard; DNA; 20 BP.
XX
XX ADR42714;
XX

```
DT 04-NOV-2004 (first entry)
XX SOD gene analysis PCR primer #1 from acetylated glycerol activation.
DE ss; primer; antiparkinsonian; nootropic; neuroprotective;
XX alpha peroxisome proliferator-activated receptor agonist;
KW acylated glycerol; neurodegenerative disorder; Parkinson's disease;
KW Alzheimer's disease; plate sclerosis; gene expression;
KW super-oxide dismutase; catalase; glutathione peroxidase; PCR primer;
KW beta-actin; gene analysis; cyclophilin.
XX Homo sapiens.
XX FR2850870-A1.
XX 13-AUG-2004.
XX 12-FEB-2003; 2003FR-00001691.
XX 12-FEB-2003; 2003FR-00001691.
XX (GENF-) GENFIT SA.
XX Darteil R, Caumont BK, Najib J;
XX WPI; 2004-583505/57.
XX Use of acylated glycerols and their nitrogen and sulfur analogs for the
PT prevention and treatment of neurodegenerative disorders, e.g. Parkinson's
PT disease.
XX Example 27; Page 119; 144pp; French.
XX The invention relates to the use of acylated glycerols, and their
CC nitrogen and sulfur analogue (I), their optical and geometric isomers,
CC racemates, salts, hydrates, and mixtures, for the prevention and
CC treatment of neurodegenerative disorders. The compounds (I) are used for
CC the prevention and treatment of neurodegenerative diseases such as
CC Parkinson's, Alzheimer's, and plate sclerosis. In an example of the
CC invention, the compounds are tested for their effects on the gene
CC expression of several genes including super-oxide dismutase (SOD),
CC catalase, glutathione peroxidase and other anti-oxidant genes. This
CC sequence corresponds to a PCR primer to amplify the SOD gene for gene
CC analysis.
XX Sequence 20 BP; 7 A; 7 C; 3 G; 3 T; 0 U; 0 Other;
XX Query Match 2.3%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 60;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 263 CCTCTATCCAGAAACACGG 282
Db 1 CCTCTATCCAGAAACACGG 20
RESULT 106
ADR42715/c
ID ADR42715 standard; DNA; 20 BP.
XX
XX ADR42715;
AC
XX
XX 04-NOV-2004 (first entry)
XX SOD gene analysis PCR primer #2 from acetylated glycerol activation.
DE ss; primer; antiparkinsonian; nootropic; neuroprotective;
XX alpha peroxisome proliferator-activated receptor agonist;
KW acylated glycerol; neurodegenerative disorder; Parkinson's disease;
KW Alzheimer's disease; plate sclerosis; gene expression;
KW super-oxide dismutase; catalase; glutathione peroxidase; PCR primer;
KW beta-actin; gene analysis; cyclophilin.
XX
```

```
OS Homo sapiens.
XX FR2850870-A1.
XX 13-AUG-2004.
XX 12-FEB-2003; 2003FR-00001691.
XX 12-FEB-2003; 2003FR-00001691.
XX (GENF-) GENFIT SA.
XX Darteil R, Caumont BK, Najib J;
XX WPI; 2004-583505/57.
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PT prevention and treatment of neurodegenerative disorders, e.g. Parkinson's
PT disease.
XX Example 27; Page 119; 144pp; French.
XX The invention relates to the use of acylated glycerols, and their
CC nitrogen and sulfur analogue (I), their optical and geometric isomers,
CC racemates, salts, hydrates, and mixtures, for the prevention and
CC treatment of neurodegenerative disorders. The compounds (I) are used for
CC the prevention and treatment of neurodegenerative diseases such as
CC Parkinson's, Alzheimer's, and plate sclerosis. In an example of the
CC invention, the compounds are tested for their effects on the gene
CC expression of several genes including super-oxide dismutase (SOD),
CC catalase, glutathione peroxidase and other anti-oxidant genes. This
CC sequence corresponds to a PCR primer to amplify the SOD gene for gene
CC analysis.
XX Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
XX Query Match 2.3%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 60;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 536 CCTTGGATGCTACTCTGAGGC 555
Db 20 CCTTGGATGCTACTCTGAGGC 1
RESULT 107
AAQ67477/c
ID AAQ67477 standard; DNA; 21 BP.
XX
XX AAQ67477;
AC
XX 25-MAR-2003 (revised)
DT 31-MAY-1995 (first entry)
XX
XX PCR primer for human SOD1 exon 1.
XX Human superoxide dismutase; hSOD1; neurodegeneration;
KW Alzheimer's disease; Parkinson's disease; Huntington's disease;
KW Hallervorden-Spatz disease; olivopontocerebellar atrophy;
KW familial amyotrophic lateral sclerosis; FALS; diagnosis; mutant SOD;
KW SSCP analysis; ss.
XX Synthetic.
XX OS
XX WO9419493-A1.
XX 01-SEP-1994.
XX 28-FEB-1994; 94WO-US002089.
XX 26-FEB-1993; 93US-00023980.
XX (GCHO ) GEN HOSPITAL CORP.
PA
```

PA (MASI) MASSACHUSETTS INST TECHNOLOGY.
 XX Brown R, Horvitz HR, Rosen DR;
 PI WPI; 1994-294353/36.
 XX
 DR
 XX
 PT Diagnosis, treatment and prevention of diseases of cell death - e.g.
 PT amyotrophic lateral sclerosis, which are the result of e.g. decreased SOD
 PT activity.
 XX
 PS Claim 8; Fig 5; 94pp; English.
 PS
 XX
 CC The presence of a mutation in a gene encoding a superoxide dismutase
 CC (SOD1, SOD2 or SOD3) indicates an increased likelihood of developing a
 CC cell death disease, specifically a neurodegenerative disease. The DNA can
 CC be analysed to detect mutant SOD sequences. Analysis is pref. preceded by
 CC a PCR amplification step. AA067476- AA067485 are examples of PCR primers
 CC which are useful for diagnosis of diseases linked to SOD1 mutations.
 CC (Updated on 25-MAR-2003 to correct PN field.)
 XX
 SQ Sequence 21 BP; 4 A; 5 C; 5 G; 7 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 21;
 Best Local Similarity 100.0%; Pred. No. 63;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 118 CATCAATTCGAGCAGAAGG 137
 DB 21 CATCAATTCGAGCAGAAGG 2
 RESULT 109
 ID ADO55690 standard; DNA; 21 BP.
 XX ADO55690;
 AC ADO55690;
 XX
 DT 15-JUL-2004 (first entry)
 XX
 DE Human cytosolic superoxide dismutase (Cu/ZnSOD) DNA, SOD1 PCR primer #2.
 DE
 XX Human; cytosolic superoxide dismutase; Cu/ZnSOD; SOD; SOD1; PCR; ss;
 KW neurodegenerative disease; cell death disease; FALS; neoplasm; primer.
 KW
 XX Homo sapiens.
 OS
 XX US6723893-B1.
 PN
 XX 20-APR-2004.
 PD
 XX 28-FEB-1994; 94US-00204052.
 PF
 XX 26-FEB-1993; 93US-00023980.
 PR
 XX (MASI) MASSACHUSETTS INST TECHNOLOGY.
 PA (GEHO) GEN HOSPITAL CORP INC.
 XX Brown R, Horvitz HR, Rosen DR;
 PI WPI; 2004-326924/30.
 DR
 XX New transgenic mouse having somatic and germ cells containing a transgene
 PT encoding and expressing a neurodegenerative disease-causing mutant SOD-1
 PT polypeptide, useful for research or drug development.
 PT
 XX Disclosure; SEQ ID NO 5; 54pp; English.
 PS
 XX The invention relates to a transgenic mouse having somatic and germ cells
 CC containing a transgene encoding and expressing a neurodegenerative
 CC disease-causing mutant SOD1 polypeptide. The invention also relates to a
 CC method of diagnosing an increased likelihood of developing cell death
 CC disease in a patient, a kit for the diagnosis of cell death disease in a
 CC patient, a method of treating a patient with a disease involving a mutant
 CC SOD encoding gene, antibodies reactive with a FALS polypeptide, a method
 CC of treating a patient with a neoplasm, a bacterial or yeast cell
 CC containing a purified nucleic acid derived from a FALS gene, a purified
 CC DNA encoding a purified FALS polypeptide and a purified FALS polypeptide.
 CC The SOD1 polypeptide is a murine or human SOD1 polypeptide. The
 CC expression of the mutant polypeptide is under the regulation of the wild-
 CC type promoter. The transgenic mouse is useful for research or drug
 CC development. This sequence represents a PCR primer used to amplify SOD1
 CC DNA encoding the human cytosolic superoxide dismutase (Cu/ZnSOD)
 CC polypeptide.
 XX
 SQ Sequence 21 BP; 4 A; 5 C; 5 G; 7 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 21;
 Best Local Similarity 100.0%; Pred. No. 63;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 118 CATCAATTCGAGCAGAAGG 137
 DB 21 CATCAATTCGAGCAGAAGG 2
 RESULT 108
 ID AAV73827/c
 XX AAV73827;
 AC AAV73827;
 XX
 DT 24-FEB-1999 (first entry)
 XX
 DE Human SOD1 exon 1 PCR primer #2.
 DE
 XX SOD1; SOD2; SOD3; Cu/Zn; superoxide dismutase; mitochondrial; treatment;
 KW extracellular; neurodegenerative disease; amyotrophic lateral sclerosis;
 KW familial; ALS; PCR primer; ss.
 KW
 XX Synthetic.
 OS
 XX Homo sapiens.
 OS
 XX US5849290-A.
 PN
 XX 15-DEC-1998.
 PD
 XX 07-JUN-1995; 95US-00486953.
 PF
 XX 26-FEB-1993; 93US-00023980.
 PR
 XX 28-FEB-1994; 94US-00204052.
 PR
 XX (MASI) MASSACHUSETTS INST TECHNOLOGY.
 PA (GEHO) GEN HOSPITAL CORP.
 XX Rosen DR, Brown R, Horvitz HR;
 PI WPI; 1999-069657/06.
 XX
 XX Treatment of neurodegenerative disease - by administering super-oxide
 PT dismutase.
 PT
 XX Disclosure; Fig 5; 53pp; English.
 PS
 XX AAV73826-V73835 are PCR primers used in the amplification of a novel
 CC human SOD1 gene which encodes a Cu/Zn SOD (superoxide dismutase) protein.
 CC This protein can be used in a method for treating a neurodegenerative
 CC disease particularly familial amyotrophic lateral sclerosis (ALS)

Query Match 2.2%; Score 19.4; DB 1; Length 21;
 Best Local Similarity 95.2%; Pred. No. 71;
 Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 335 GACAAAGATGGTGTGCCGAT 355
 |||||
 Db 1 GACAAAGATGCTGTGCCGAT 21

RESULT 114
 AAN81808/c
 ID AAN81808 standard; DNA; 22 BP.
 XX
 AC AAN81808;
 XX
 DT 25-MAR-2003 (revised)
 DT 20-SEP-1990 (first entry)
 XX
 DE Probe used to identify mutant RF M13 clone containing human copper-zinc
 DE superoxidizedismutase (hSOD) Cys111 gene.
 XX
 KW Human copper-zinc superoxidizedismutase Cys111 gene; RF M13 clone;
 KW M13p8SODC111S DNA probe; thermostable mutin; enzyme; hybridisation.
 XX
 OS Synthetic.
 XX
 PN EP275202-A.
 XX
 XX 20-JUL-1988.
 XX
 XX 14-JAN-1988; 88EP-00300294.
 XX
 XX 15-JAN-1987; 87US-00003578.
 XX
 XX (CHIR) CHIRON CORP.
 XX
 XX Hallelwell RA, Tekampolso P;
 XX
 XX WPI; 1988-199638/29.
 XX
 XX Mutin of human copper-zinc superoxidizedismutase - having cysteine
 PT residues replaced with an uncharged amino acid, for increased
 PT thermostability.
 XX
 PS Example; Page 5; 15pp; English.
 XX
 CC RF M13 clone containing hSOD Cys111 gene is designated M13p8SODC111S.
 CC The probe is (32)P-labelled. The patent is for a mutin of hSOD in which
 CC at least one of the cysteine residues at positions 6 and 111 is replaced
 CC with an uncharged AA. DNA encoding the mutin is also claimed. Substn. of
 CC the free cysteines of hSOD with uncharged AAs increases thermostability.
 CC Cloning and sequencing of hSOD cDNA and the prodn. of hSOD in bacteria
 CC and yeast are described in EP-138111. (Updated on 25-MAR-2003 to correct
 CC PF field.) (Updated on 25-MAR-2003 to correct PA field.) (Updated on 25-
 CC MAR-2003 to correct PI field.)
 XX
 SQ Sequence 22 BP; 8 A; 3 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 2.2%; Score 19.4; DB 1; Length 22;
 Best Local Similarity 95.2%; Pred. No. 75;
 Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 368 GATTCTGTGATCTCACTCTCA 388
 |||||
 Db 22 GATTCTGTGATCTCACTCTCA 2

RESULT 115
 ADE52415
 ID ADE52415 standard; RNA; 23 BP.
 XX
 AC ADE52415;

XX
 DT 29-JAN-2004 (first entry)
 XX
 DE siRNA p9 sequence #1 for wild-type human SOD1 gene.
 XX
 KW Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;
 KW target DNA sequence; RNA polymerase termination signal;
 KW hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;
 KW cancer; leukaemia; haemophilia; viral infection; bacterial infection;
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;
 KW Huntington's disease; amyotrophic lateral sclerosis; ALS; cytosolic;
 KW haemostatic; viricide; antibacterial; neuroprotective; nootropic;
 KW anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;
 KW small interfering RNA; siRNA; ss.
 XX
 OS Homo sapiens.
 XX
 PN US2003180756-A1.
 XX
 XX 25-SEP-2003.
 XX
 XX 21-NOV-2002; 2002US-00301516.
 XX
 XX 21-MAR-2002; 2002US-0366478P.
 PR
 XX (SHIY/) SHI Y.
 PA (SUIG/) SUI G.
 PA
 XX Shi Y, Sui G;
 PI
 XX WPI; 2003-852231/79.
 DR
 XX
 XX New nucleic acids, useful for inhibiting the synthesis of a target
 PT protein in a eukaryotic cell, or for treating various diseases by
 PT inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,
 PT viral or bacterial infection.
 PT
 XX
 PS Example 6; Fig 5A; 38pp; English.
 XX
 CC The present invention relates to a method for suppressing gene expression
 CC in cells, particularly eukaryotic cells. The method involves a new
 CC nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter
 CC sequence, a first target sequence that is essentially complementary to a
 CC sequence of a target nucleic acid or its complement, a spacer sequence, a
 CC second target sequence that is essentially complementary to the first
 CC target sequence, and an RNA polymerase termination signal, where an RNA
 CC transcribed from the nucleic acid can inhibit expression of the target
 CC gene. The RNA transcribed from the nucleic acid may form a hairpin
 CC structure. The polymerase is preferably RNA polymerase III (Pol III) and
 CC the polymerase termination signal comprises a number of thymidines
 CC sufficient for arresting Pol III activity. The nucleic acids and methods
 CC are useful for suppressing gene expression in cells, or inhibiting the
 CC synthesis of a target protein in a eukaryotic cell or in a cell of a
 CC subject. The nucleic acids can be used for treating various diseases by
 CC inhibiting the expression of abnormal or mutated proteins, e.g. cancers
 CC such as leukaemia, haemophilia, viral or bacterial infections, and
 CC neurodegenerative diseases including Alzheimer's disease, Parkinson's
 CC disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).
 CC The present sequence represents a small interfering RNA (siRNA) that can
 CC be used to target the wild-type human superoxide dismutase 1 (SOD1) gene.
 XX
 SQ Sequence 23 BP; 5 A; 3 C; 7 G; 2 T; 4 U; 2 Other;

Query Match 2.2%; Score 19.2; DB 1; Length 23;
 Best Local Similarity 75.0%; Pred. No. 81;
 Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 312 GAGACTTGGCAATGTGACT 331
 |||||
 Db 1 GAGACUUGGGCAUUGACD 20

RESULT 116

310 TGGAGACTTGGGCAATGTGA 329

PN JP2002142610-A.
 XX
 PD 21-MAY-2002.
 XX
 PF 07-NOV-2000; 2000JP-00339567.
 XX
 PR 07-NOV-2000; 2000JP-00339567.
 XX
 PA (TOHO-) TOHOKU TECHNOARCH KK.
 XX
 DR WPI; 2002-552464/59.
 XX
 XX An amyotrophic lateral sclerosis model rat for investigation of its
 PT pathology and onset mechanism with introduced exogenic variant Cu/Zn
 PT superoxide dismutase.
 XX
 PS Example 1; Page 13; 28pp; Japanese.
 XX
 CC The present invention describes an amyotrophic lateral sclerosis (ALS)
 CC model rat. Also described: (1) a transgenic rat or its progeny having a
 CC DNA with integrated exogenic variant Cu/Zn superoxide dismutase (SOD)
 CC gene; and (2) rat embryonic stem cells having human variant Cu/Zn SOD
 CC gene sequence. The transgenic rat can be used in the investigation of the
 CC pathology and the onset mechanism of ALS. The present sequence represents
 CC a PCR primer which is used in an example from the present invention
 XX
 SQ Sequence 19 BP; 5 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
 Query Match 2.2%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 69;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 547 GTCTGAGGCCCTTAACCT 565
 Db 19 GTCTGAGGCCCTTAACCT 1
 RESULT 119
 ADQ0680
 ID ADQ0680 standard; DNA; 19 BP.
 XX
 AC ADQ0680;
 XX
 DT 21-OCT-2004 (first entry)
 XX
 DE Human cytosolic superoxide dismutase (SOD)1 RT-PCR primer, hSODc-sense.
 XX
 KW Survival; neuron; tyrosine hydroxylase; tyrosine 3-monooxygenase; TH;
 KW anti-apoptotic; Bcl-XL; neurological disorder; neuroprotective;
 KW neurotropic; antiparkinsonian; transplantation; drug screening;
 KW gene profiling; CNS disorder; neurodegenerative disease; primer; ss.
 KW hSOD1; RT-PCR; human.
 XX
 OS Homo sapiens.
 XX
 PN WO2004062554-A2.
 XX
 PD 29-JUL-2004.
 XX
 PF 07-JAN-2004; 2004WO-DK000008.
 XX
 PR 08-JAN-2003; 2003US-0438719P.
 PR 11-APR-2003; 2003DK-00000581.
 PR 22-APR-2003; 2003US-0464546P.
 XX
 XX (NSGE-) NSGENE AS.
 PA
 XX Martinez-Serrano A, Liste I, Villa A;
 PI
 XX WPI; 2004-544027/52.
 DR
 XX Enhancing the survival of neurons or cells expressing tyrosine
 PT hydroxylase (TH) for treating neurodegenerative disorders, comprises

PT contacting neurons or TH expressing cells with Bcl-XL or its functional
 PT equivalent.
 XX
 PS Example 2; Page 42; 108pp; English.
 XX
 CC The invention relates to a novel method for enhancing the survival of
 CC neurons and/or of cells expressing tyrosine hydroxylase (EC 1.14.16.2 -
 CC Tyrosine 3-monooxygenase) (TH +). The method comprises contacting a
 CC population of cells with Bcl-XL or its functional equivalent, where the
 CC population of cells is selected from: neurons or cells capable of
 CC differentiating into neurons; or TH expressing cells or cells capable of
 CC differentiating into TH expressing cells. The invention further
 CC comprises: a composition of cells obtainable by the method above; a
 CC composition of isolated mammalian cells overexpressing the anti-apoptotic
 CC Bcl-XL protein; a neural progenitor cell; a differentiated dopaminergic
 CC neuron; an implantable cell culture device comprising: a semi-permeable
 CC membrane permitting the diffusion of a biologically active protein
 CC through it; and a composition of cells selected from above; a lentiviral
 CC vector particle being produced based on a lentiviral transfer vector;
 CC enhancing the survival of TH + cells in vivo; a retroviral particle being
 CC produced based on a retroviral transfer vector; enhancing the survival of
 CC in vivo differentiated dopaminergic neurons; a packaging cell line
 CC capable of producing an infective vector particle; a packaging cell line
 CC capable of producing an infective vector particle; treatment of a
 CC neurological disorder; a fusion protein comprising the Bcl-XL sequence
 CC comprising 233 amino acids ADQ0670 or its functional equivalent and a
 CC membrane translocation signal; an expression vector comprising a
 CC polynucleotide sequence coding for the fusion protein and a promoter
 CC sequence capable of directing the expression of the fusion protein in a
 CC host cell; a host cell comprising the expression vector; and producing
 CC the fusion protein. The compositions of the invention have
 CC neuroprotective, neurotropic, and antiparkinsonian activities. The cells
 CC are useful for transplantation, drug screening, gene profiling, or for
 CC the preparation of a medicament useful for the treatment of a CNS
 CC disorder. The CNS disorder is a neurodegenerative disease involving
 CC lesioned and traumatic neurons, including traumatic lesions of peripheral
 CC nerves, the medulla, the spinal chord, cerebral ischaemic neuronal
 CC damage, neuropathy, peripheral neuropathy, Alzheimer's disease,
 CC Huntington's disease, Parkinson's disease, amyotrophic lateral sclerosis,
 CC or memory impairment connected to dementia. The method is useful for
 CC enhancing the survival of neurons and/or of cells expressing tyrosine
 CC hydroxylase for the treatment of neurodegenerative disorders. This
 CC polynucleotide sequence represents a primer used in the exemplification
 CC of the invention.
 XX
 SQ Sequence 19 BP; 3 A; 4 C; 7 G; 5 T; 0 U; 0 Other;
 Query Match 2.2%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 69;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 48 GCGTGGCCTAGCGAGTTAT 66
 Db 1 GCGTGGCCTAGCGAGTTAT 19
 RESULT 120
 ADE52425/c
 ID ADE52425 standard; RNA; 23 BP.
 XX
 AC ADE52425;
 XX
 DT 29-JAN-2004 (first entry)
 XX
 DE siRNA pl1 sequence #2 for wild-type human SOD1 gene.
 XX
 KW Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;
 KW target DNA sequence; RNA polymerase termination signal;
 KW hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;
 KW cancer; leukaemia; haemophilia; viral infection; bacterial infection;
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;
 KW Huntington's disease; amyotrophic lateral sclerosis; ALS; cyostatic;
 KW haemostatic; virucide; antibacterial; neuroprotective; neurotropic;

KW	anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;
KW	small interfering RNA; siRNA; ss.
OS	Homo sapiens.
XX	
XX	US2003180756-A1.
PN	
XX	
PD	25-SEP-2003.
XX	
XX	21-NOV-2002; 2002US-00301516.
XX	
XX	21-MAR-2002; 2002US-0366478P.
PR	
XX	(SHIY/) SHI Y.
PA	(SUIG/) SUI G.
FA	
XX	
PI	Shi Y, Sui G;
XX	
XX	WPI; 2003-852231/79.
DR	
XX	
PT	New nucleic acids, useful for inhibiting the synthesis of a target
PT	protein in a eukaryotic cell, or for treating various diseases by
PT	inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,
PT	viral or bacterial infection.
XX	
XX	Example 6; Fig 5A; 38pp; English.
PS	
CC	The present invention relates to a method for suppressing gene expression
CC	in cells, particularly eukaryotic cells. The method involves a new
CC	nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter
CC	sequence, a first target sequence that is essentially complementary to a
CC	sequence of a target nucleic acid or its complement, a spacer sequence, a
CC	second target sequence that is essentially complementary to the first
CC	target sequence, and an RNA polymerase termination signal, where an RNA
CC	transcribed from the nucleic acid can inhibit expression of the target
CC	gene. The RNA transcribed from the nucleic acid may form a hairpin
CC	structure. The polymerase is preferably RNA polymerase III (Pol III) and
CC	the polymerase termination signal comprises a number of thymidines
CC	sufficient for arresting Pol III activity. The nucleic acids and methods
CC	are useful for suppressing gene expression in cells, or inhibiting the
CC	synthesis of a target protein in a eukaryotic cell or in a cell of a
CC	subject. The nucleic acids can be used for treating various diseases by
CC	inhibiting the expression of abnormal or mutated proteins, e.g. cancers
CC	such as leukaemia, haemophilia, viral or bacterial infections, and
CC	neurodegenerative diseases including Alzheimer's disease, Parkinson's
CC	disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).
CC	The present sequence represents a small interfering RNA (siRNA) that can
CC	be used to target the wild-type human superoxide dismutase 1 (SOD1) gene.
XX	
SQ	Sequence 23 BP; 5 A; 8 C; 2 G; 2 T; 4 U; 2 Other;
Query Match 2.2%; Score 19; DB 1; Length 23;	
Best Local Similarity 100.0%; Pred. No. 84;	
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0	
QY	310 TGGAGACTTTGGGCAATGTG 328
DB	19 TGGAGACTTTGGGCAATGTG 1
RESULT 121	
AD52424/c	
ID	AD52424 standard; RNA; 23 BP.
XX	
AC	AD52424;
XX	
DT	29-JAN-2004 (first entry)
XX	
DE	siRNA p10 sequence #2 for wild-type human SOD1 gene.
XX	
KW	Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;
KW	target RNA sequence; RNA polymerase termination signal;
KW	hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;

cancer; leukaemia; haemophilia; viral infection; bacterial infection; neurodegenerative disease; Alzheimer's disease; Parkinson's disease; Huntington's disease; amyotrophic lateral sclerosis; ALS; cytostatic; haemostatic; virucide; antibacterial; neuroprotective; nootropic; anticoagulant; antiparkinsonian; human; superoxide dismutase 1; SOD1; small interfering RNA; siRNA; ss.

Homo sapiens.
US2003180756-A1.
25-SEP-2003.
21-NOV-2002; 2002US-00301516.
21-MAR-2002; 2002US-0366478P.
(SHIY/) SHI Y.
(SUIG/) SUI G.
Shi Y, Sui G;
WPI; 2003-852231/79.

New nucleic acids, useful for inhibiting the synthesis of a target protein in a eukaryotic cell, or for treating various diseases by inhibiting the expression of abnormal or mutated proteins, e.g. leukemia, viral or bacterial infection.

Example 6; Fig 5A; 38pp; English.

The present invention relates to a method for suppressing gene expression in cells, particularly eukaryotic cells. The method involves a new nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter sequence, a first target sequence that is essentially complementary to a second target sequence that is essentially complementary to the first target sequence, and an RNA polymerase termination signal, where an RNA transcribed from the nucleic acid can inhibit expression of the target gene. The RNA transcribed from the nucleic acid may form a hairpin structure. The polymerase is preferably RNA polymerase III (Pol III) and the polymerase termination signal comprises a number of thymidines sufficient for arresting Pol III activity. The nucleic acids and methods are useful for suppressing gene expression in cells, or inhibiting the synthesis of a target protein in a eukaryotic cell or in a cell of a subject. The nucleic acids can be used for treating various diseases by inhibiting the expression of abnormal or mutated proteins, e.g. cancers such as leukaemia, haemophilia, viral or bacterial infections, and neurodegenerative diseases including Alzheimer's disease, Parkinson's disease, Huntington's disease and amyotrophic lateral sclerosis (ALS). The present sequence represents a small interfering RNA (siRNA) that can be used to target the wild-type human superoxide dismutase 1 (SOD1) gene.

Sequence 23 BP; 4 A; 8 C; 2 G; 2 T; 5 U; 2 Other;

Query Match 2.2%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred.No. 84;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0

Qy 311 GGAGACTTGGGCAATGTGA 329
|||||
Db 19 GGAGACTTGGGCAATGTGA 1

RESULT 122
ADE52423/c
ID ADE52423 standard; RNA; 23 BP.
AC ADE52423;
XX
DT 29-JAN-2004 (first entry)
XX
DE siRNA p9 sequence #2 for wild-type human SOD1 gene.

XX Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;
 KW target DNA sequence; RNA polymerase termination signal;
 KW hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;
 KW cancer; leukaemia; haemophilia; viral infection; bacterial infection;
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;
 KW Huntington's disease; amyotrophic lateral sclerosis; ALS; cytostatic;
 KW haemostatic; viricide; antibacterial; neuroprotective; nootropic;
 KW anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;
 KW small interfering RNA; siRNA; ss.
 XX Homo sapiens.
 XX US2003180756-A1.
 XX 25-SEP-2003.
 PD 21-NOV-2002; 2002US-00301516.
 XX 21-MAR-2002; 2002US-0366478P.
 XX (SHIY/) SHI Y.
 PA (SUIG/) SUI G.
 XX Shi Y, Sui G;
 PI WPI; 2003-852231/79.
 DR New nucleic acids, useful for inhibiting the synthesis of a target
 PT protein in a eukaryotic cell, or for treating various diseases by
 PT inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,
 PT viral or bacterial infection.
 XX Example 6; Fig 5A; 38pp; English.
 PS The present invention relates to a method for suppressing gene expression
 CC in cells, particularly eukaryotic cells. The method involves a new
 CC nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter
 CC sequence, a first target sequence that is essentially complementary to a
 CC sequence of a target nucleic acid or its complement, a spacer sequence, a
 CC second target sequence that is essentially complementary to the first
 CC target sequence, and an RNA polymerase termination signal, where an RNA
 CC transcribed from the nucleic acid can inhibit expression of the target
 CC gene. The RNA transcribed from the nucleic acid may form a hairpin
 CC structure. The polymerase is preferably RNA polymerase III (Pol III) and
 CC the polymerase termination signal comprises a number of thymidines
 CC sufficient for arresting Pol III activity. The nucleic acids and methods
 CC are useful for suppressing gene expression in cells, or inhibiting the
 CC synthesis of a target protein in a eukaryotic cell or in a cell of a
 CC subject. The nucleic acids can be used for treating various diseases by
 CC inhibiting the expression of abnormal or mutated proteins, e.g. cancers
 CC such as leukaemia, haemophilia, viral or bacterial infections, and
 CC neurodegenerative diseases including Alzheimer's disease, Parkinson's
 CC disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).
 CC The present sequence represents a small interfering RNA (siRNA) that can
 CC be used to target the wild-type human superoxide dismutase 1 (SOD1) gene.
 XX Sequence 23 BP; 4 A; 7 C; 3 G; 2 T; 5 U; 2 Other;
 SQ Query Match 2.2%; Score 19; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 84;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 312 GAGACTTGGCAATGTGAC 330
 Db 19 GAGACTTGGCAATGTGAC 1
 RESULT 123
 AAV01384/C
 ID AAV01384 standard; DNA; 20 BP.
 XX
 AC AAV01384;

XX 23-MAR-1998 (first entry)
 XX Superoxide dismutase 1 PCR primer for universal mammalian STS's.
 DE PCR primer; polymerase chain reaction; amplification; UM-STS;
 KW universal mammalian sequence tagged site; genomic map; clone; ss.
 KW Synthetic.
 OS WO9731012-A1.
 PN 28-AUG-1997.
 XX 18-FEB-1997; 97WO-US002403.
 XX 22-FEB-1996; 96US-0012061P.
 XX (UNMI) UNIV MICHIGAN.
 PA (UNMS) UNIV MICHIGAN STATE.
 XX Brewer GJ, Venta PJ, Yuzbasiyan-Gurkan V;
 PI WPI; 1997-435083/40.
 DR New oligonucleotide primers amplifying gene regions conserved among
 PT mammals - useful for developing genomic maps, isolating clones and making
 PT cross-species comparisons.
 XX Claim 2; Page 13; 26pp; English.
 PS The present sequence represents a specifically claimed oligonucleotide
 CC PCR primer. The oligonucleotide can be used for polymerase chain reaction
 CC (PCR) amplification of DNA, specifically regions of specific genes that
 CC are conserved among mammalian species, i.e. pairs of oligonucleotides
 CC from the present specification represent universal mammalian sequence-
 CC tagged site (UM-STs) primers. The primers are used to develop genomic
 CC maps, to isolate clones from libraries, to make cross-species comparisons
 CC and to develop additional genetic markers. UM-STs allow genomic
 CC comparisons to be made between more species
 XX Sequence 20 BP; 4 A; 9 C; 3 G; 4 T; 0 U; 0 Other;
 SQ Query Match 2.1%; Score 18.4; DB 1; Length 20;
 Best Local Similarity 95.0%; Pred. No. 82;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 302 AGGCATGTTGGAGACTTGGG 321
 Db 20 AGGCATGTTGGAGACTTGGG 1
 RESULT 124
 ADT66494/c
 ID ADT66494 standard; DNA; 18 BP.
 XX
 AC ADT66494;
 XX 16-DEC-2004 (first entry)
 DT PCR primer for CuZn SOD SEQ ID NO:8.
 DE ss; primer; PCR; CuZn SOD; cancer; antioxidant gene expression analysis;
 KW irradiation therapy.
 KW Synthetic.
 OS KR2004025183-A.
 XX 24-MAR-2004.
 XX 18-SEP-2002; 2002KR-00057027.
 XX

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PR 18-SEP-2002; 2002KR-00057027.
XX (PARK/) PARK Y M.
PA Choi EM, Han MY, Hwang SY, Jun HJ, Kim YH, Park JH, Park YM;
XX WPI; 2004-495260/47.
XX Method and DNA chip for monitoring response of cancer patients to
PT irradiation therapy using antioxidant gene expression analysis.
XX Claim 2; SEQ ID NO 8; 22pp; Korean.
XX The invention relates to a novel method and a DNA chip for monitoring a
CC response of cancer patients to irradiation therapy using antioxidant gene
CC expression analysis, thereby accurately anticipating the response to
CC irradiation therapy and minimizing adverse side-effects thereof. A method
CC for monitoring a response of cancer patients to irradiation therapy
CC comprises: collecting a peripheral blood cell from a human; irradiating
CC the peripheral blood cell; extracting RNA according to the time period;
CC preparing DNA from the RNA; hybridizing the DNA with antioxidant enzyme
CC cDNA; amplifying the hybridized DNA using one or more pairs of primers
CC selected from: DNA fragments of ADT66487 and ADT66488; DNA fragments of
CC ADT66489 and ADT66490; DNA fragments of ADT66491 and ADT66492; DNA
CC fragments of ADT66493 and ADT66494; DNA fragments of ADT66495 and
CC ADT66496; and DNA fragments of ADT66497 and ADT66498; and analyzing
CC expression pattern of the amplified DNA according to the time period. A
CC DNA chip for monitoring a response of cancer patients to irradiation
CC therapy amplifies one or more antioxidant genes corresponding to the
CC following DNA fragments: DNA fragments of ADT66487 and ADT66488 - GPX1;
CC DNA fragments of ADT66489 and ADT6490 - gamma-GCS; DNA fragments of
CC ADT66491 and ADT66492 - catalase; DNA fragments of ADT66493 and ADT66494
CC - CuZn SOD; DNA fragments of ADT66495 and ADT66496 - Mn SOD; and DNA
CC fragments of ADT66497 and ADT66498 - Prx II. The present sequence
CC represents a PCR primer of the invention.
XX Sequence 18 BP; 4 A; 5 C; 4 G; 5 T; 0 U; 0 Other;
SQ Query Match 2.1%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 509 GTAATTGGGATGCCCAA 526
DB 18 GTAATTGGGATGCCCAA 1
RESULT 125
AD52401
ID ADE52401 standard; DNA; 19 BP.
XX AC ADE52401;
XX DT 29-JAN-2004 (first entry)
XX Target DNA sequence #1 for human SOD1 G256C (Gly85Arg) mutant gene.
XX Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;
XX target DNA sequence; RNA polymerase termination signal;
XX hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;
XX cancer; leukaemia; haemophilia; viral infection; bacterial infection;
XX neurodegenerative disease; Alzheimer's disease; Parkinson's disease;
XX Huntington's disease; amyotrophic lateral sclerosis; ALS; cytostatic;
XX haemostatic; virucide; antibacterial; neuroprotective; nontropic;
XX anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;
XX G256C mutant; Gly85Arg mutant; ss.
XX Synthetic.
XX OS Homo sapiens.
XX US2003180756-A1.
XX 25-SEP-2003.
PD
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XX 21-NOV-2002; 2002US-00301516.
XX 21-MAR-2002; 2002US-0366478P.
XX (SHIY/) SHI Y.
XX (SUIG/) SUI G.
XX Shi Y, Sui G;
XX WPI; 2003-852231/79.
XX New nucleic acids, useful for inhibiting the synthesis of a target
PT protein in a eukaryotic cell, or for treating various diseases by
PT inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,
XX viral or bacterial infection.
XX Disclosure; Page 16; 38pp; English.
XX The present invention relates to a method for suppressing gene expression
CC in cells, particularly eukaryotic cells. The method involves a new
CC nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter
CC sequence, a first target sequence that is essentially complementary to a
CC sequence of a target nucleic acid or its complement, a spacer sequence, a
CC second target sequence that is essentially complementary to the first
CC target sequence, and an RNA polymerase termination signal, where an RNA
CC transcribed from the nucleic acid can inhibit expression of the target
CC gene. The RNA transcribed from the nucleic acid may form a hairpin
CC structure. The polymerase is preferably RNA polymerase III (Pol III) and
CC the polymerase termination signal comprises a number of thymidines
CC sufficient for arresting Pol III activity. The nucleic acids and methods
CC are useful for suppressing gene expression in cells, or inhibiting the
CC synthesis of a target protein in a eukaryotic cell or in a cell of a
CC subject. The nucleic acids can be used for treating various diseases by
CC inhibiting the expression of abnormal or mutated proteins, e.g. cancers
CC such as leukaemia, haemophilia, viral or bacterial infections, and
CC neurodegenerative diseases including Alzheimer's disease, Parkinson's
CC disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).
CC The present sequence represents a target DNA sequence that can be used to
CC inhibit expression of the human superoxide dismutase 1 (SOD1) G256C
CC (Gly85Arg) mutant gene.
XX Sequence 19 BP; 5 A; 3 C; 7 G; 4 T; 0 U; 0 Other;
SQ Query Match 2.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 94;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 311 GGAGACTTGGCAATGTGA 329
DB 1 GGAGACTTGGCAATGTGA 19
RESULT 126
AD52402/c
ID ADE52402 standard; DNA; 19 BP.
XX AC ADE52402;
XX DT 29-JAN-2004 (first entry)
XX Target DNA sequence #2 for human SOD1 G256C (Gly85Arg) mutant gene.
XX Suppression of gene expression; eukaryotic cell; RNA polymerase promoter;
XX target DNA sequence; RNA polymerase termination signal;
XX hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;
XX cancer; leukaemia; haemophilia; viral infection; bacterial infection;
XX neurodegenerative disease; Alzheimer's disease; Parkinson's disease;
XX Huntington's disease; amyotrophic lateral sclerosis; ALS; cytostatic;
XX haemostatic; virucide; antibacterial; neuroprotective; nontropic;
XX anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;
XX G256C mutant; Gly85Arg mutant; ss.
XX
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OS Synthetic.
 OS Homo sapiens.
 PN US2003180756-A1.
 XX
 XX 25-SEP-2003.
 PD
 XX
 XX 21-NOV-2002; 2002US-00301516.
 XX
 XX 21-MAR-2002; 2002US-0366478P.
 PR
 XX (SHIY/) SHI Y.
 PA (SUIG/) SUI G.
 XX
 XX Shi Y, Sui G;
 XX
 XX WPI; 2003-852231/79.
 DR
 XX
 XX New nucleic acids, useful for inhibiting the synthesis of a target
 PT protein in a eukaryotic cell, or for treating various diseases by
 PT inhibiting the expression of abnormal or mutated proteins, e.g. leukemia,
 PT viral or bacterial infection.
 XX
 XX Disclosure; Page 16; 38pp; English.
 PS
 XX
 CC The present invention relates to a method for suppressing gene expression
 CC in cells, particularly eukaryotic cells. The method involves a new
 CC nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter
 CC sequence, a first target sequence that is essentially complementary to a
 CC second target sequence that is essentially complementary to the first
 CC target sequence, and an RNA polymerase termination signal, where an RNA
 CC transcribed from the nucleic acid can inhibit expression of the target
 CC gene. The RNA transcribed from the nucleic acid may form a hairpin
 CC structure. The polymerase is preferably RNA polymerase III (Pol III) and
 CC the polymerase termination signal comprises a number of thymidines
 CC sufficient for arresting Pol III activity. The nucleic acids and methods
 CC are useful for suppressing gene expression in cells, or inhibiting the
 CC synthesis of a target protein in a eukaryotic cell or in a cell of a
 CC subject. The nucleic acids can be used for treating various diseases by
 CC inhibiting the expression of abnormal or mutated proteins, e.g. cancers
 CC such as leukaemia, haemophilia, viral or bacterial infections, and
 CC neurodegenerative diseases including Alzheimer's disease, Parkinson's
 CC disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).
 CC The present sequence represents a target DNA sequence that can be used to
 CC inhibit expression of the human superoxide dismutase 1 (SOD1) G256C
 CC (Gly85Arg) mutant gene.
 XX
 XX Sequence 19 BP; 4 A; 7 C; 3 G; 5 T; 0 U; 0 Other;
 SQ
 Query Match 2.0%; Score 17.4; DB 1; Length 19;
 Best Local Similarity 94.7%; Pred. No. 94;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 311 GGAGACTTGGCAATGTGA 329
 DB 19 CGAGACTTGGCAATGTGA 1
 RESULT 127
 ABZ91893
 ID ABZ91893 standard; DNA; 20 BP.
 XX
 XX ABZ91893;
 AC
 XX
 XX 17-OCT-2003 (first entry)
 DT
 XX
 XX Human oligonucleotide sequence.
 DE
 XX
 XX Human; antisense; lung dysfunction; nasal airway dysfunction;
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;

KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
 KW lung inflammation; respiratory disease; ds.
 XX
 OS Homo sapiens.
 XX
 PN WO200285308-A2.
 XX
 XX 31-OCT-2002.
 PD
 XX
 XX 23-APR-2002; 2002WO-US013135.
 XX
 XX 24-APR-2001; 2001US-0286137P.
 PR
 XX (EPIC-) EPICENESIS PHARM INC.
 PA
 XX
 XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
 PI Miller S, Tang L, Shahabuddin S;
 XX
 XX WPI; 2003-229219/22.
 DR
 XX
 XX Pharmaceutical composition for treating ailments associated with impaired
 PT respiration, has oligo(s) antisense to specific gene(s) or its
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
 PT ubiquinone.
 XX
 XX Disclosure; SEQ ID NO 7135; 872pp; English.
 PS
 XX
 CC The invention relates to a novel pharmaceutical composition, which has a
 CC first active agent comprising an oligonucleotide antisense to the
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
 CC junctions of genes encoding a polypeptide associated with lung and/or
 CC nasal airway dysfunction and a second active agent comprising an
 CC antiinflammatory steroid and ubiquinone. A composition of the invention
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive, and
 CC immunosuppressive, and cytostatic activity. The composition may have a
 CC use in antisense gene therapy. The composition is useful for treating or
 CC preventing a respiratory, lung or malignant disease or condition, also
 CC for enhancing the prophylactic or therapeutic respiratory effect of an
 CC antiinflammatory steroid in a subject, for reducing or depleting levels
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
 CC lung inflammation, lung allergies, or a respiratory disease or condition.
 CC Note: The sequence data for this patent is not represented in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences
 XX
 XX Sequence 20 BP; 10 A; 2 C; 5 G; 3 T; 0 U; 0 Other;
 SQ
 Query Match 2.0%; Score 17.4; DB 1; Length 20;
 Best Local Similarity 94.7%; Pred. No. 99;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 131 CAGAGGAAAGTAATGGAC 149
 DB 1 CAGAGGAAAGTAATGGAC 19
 RESULT 128
 ABD28123
 ID ABD28123 standard; DNA; 20 BP.
 XX
 XX ABD28123;
 AC
 XX
 XX 29-JUL-2004 (first entry)
 DT
 XX
 XX AA156940-derived oligonucleotide SEQ ID 7135.
 DE
 XX
 XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;
 KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;
 KW surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;
 KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;

KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;
 KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;
 KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
 KW pulmonary transplantation rejection; ss; primer.
 XX Homo sapiens.
 XX WO200285309-A2.
 XX 31-OCT-2002.
 XX 23-APR-2002; 2002WO-US013143.
 XX 24-APR-2001; 2001US-0286036P.
 XX (EPIG-) EPIGENESIS PHARM INC.
 XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
 PI Miller S, Tang L, Shahabuddin S;
 DR WPI; 2003-093058/08.
 XX Pharmaceutical composition for treating asthma, has antisense
 PT oligonucleotide containing less percentage of adenosine, targeted to
 PT nucleic acids associated with lung airway or lung dysfunction, and
 PT bronchodilating agent.
 XX Claim 15; SEQ ID NO 7135; 763pp; English.
 XX This invention describes a novel composition (a) a first active agent,
 CC comprising oligonucleotides, effective for alleviating
 CC bronchoconstriction, respiratory tract inflammation, allergies and
 CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,
 CC surfactant depletion or hyposecretion, when administered to a mammal. The
 CC oligonucleotides are derived from a gene encoding or regulating
 CC expression of a target polypeptide associated with lung airway or lung
 CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.
 CC The invention also describes a kit, that comprises: (a) a delivery
 CC device, in separate containers, (b) the oligonucleotides, (c)
 CC instructions for adding a carrier and for use of the kit. The composition
 CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic, is a
 CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a
 CC beta-adrenergic agonist. The composition is useful for preventing or
 CC treating a respiratory, lung or malignant disease. The administered
 CC composition comprises oligo and is administered to reduce the production
 CC or availability, or to increase the degradation of the target mRNA or to
 CC reduce the amount of target polypeptide present in the lungs. The
 CC pulmonary obstruction, and/or bronchoconstriction and/or lung
 CC inflammation, allergies and/or surfactant hypoproduction are associated
 CC with a disease or condition such as pulmonary vasoconstriction,
 CC inflammation, allergies, asthma, impeded respiration, respiratory
 CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary
 CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary
 CC transplantation rejection, pulmonary infections, bronchitis or cancer.
 CC The reduced adenosine content of the anti-sense oligos corresponding to
 CC thymidines present in the target RNA serves to prevent the breakdown of
 CC the oligonucleotides into products that free adenosine into the system
 CC e.g., lung, brain, heart, kidney, etc. tissue environment and thereby, to
 CC prevent any unwanted effects due to it
 XX SQ Sequence 20 BP; 10 A; 2 C; 5 G; 3 T; 0 U; 0 Other;
 Query Match 2.08; Score 17.4; DB 1; Length 20;
 Best Local Similarity 94.78; Pred. No. 99;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 131 CAGAAGGAAAGTAATGAC 149
 Db 1 CAGAAGGAAAGTAATGAC 19
 RESULT 129
 ABS98129/c

ABS98129 standard; DNA; 21 BP.
 ABS98129;
 23-DEC-2002 (first entry)
 Human multidrug resistance gene polymorphic sequence #31.
 Human; ds; cytochrome P450 A1; CYP4501A1; UGT2B4; MDR1;
 cytochrome P450 A2; CYP4501A2; cytochrome P450 02E; CYP45002E1; LTF;
 adrenergic receptor beta1; ADRB1; aryl hydrocarbon; AHR; MRP3; NR1I2;
 aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
 cyclooxygenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
 epoxide hydroxylase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;
 glutathione-S-transferase 12; GST12; histamine-N-methyl transferase;
 HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NMN;
 NADPH quinone oxidoreductase 2; NQO2; sulfotransferase thermolabile; STM;
 UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;
 UGT2B7; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; uPA;
 multidrug resistance 1; lactotransferrin; orphan nuclear receptor;
 multidrug resistance associated protein 3; cancer; prostate;
 acetylcholine muscarinic receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMR5;
 altered drug metabolism; cardiovascular function; colorectal tumour;
 central nervous system; pulmonary; immunological; SNP;
 single nucleotide polymorphism.
 Homo sapiens.
 WO200257410-A2.
 25-JUL-2002.
 28-NOV-2001; 2001WO-US044838.
 28-NOV-2000; 2000US-00724389.
 (DNAS-) DNA SCI LAB INC.
 Guida M, Hall J;
 WPI; 2002-698522/75.
 Isolated nucleic acid molecules having polymorphisms in known human genes
 e.g. cytochrome p450 and cathepsin S useful as genetic linkage markers
 for locating, identifying and characterizing the genes responsible for
 disorder-related traits.
 Example 22; Page 144; 714pp; English.
 This invention relates to the sequence of an isolated nucleic acid
 molecule comprising at least one base variation from that of a known
 human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2),
 cytochrome P450 02E1 (CYP45002E1), adrenergic receptor beta1 (ADRB1),
 aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator
 (ARNT), cathepsin S (CTSS), cyclooxygenase 2 (COX2), diazepam binding
 inhibitor (DBI), epoxide hydroxylase 2 (EPHX2), 5-lipoxygenase activating
 protein (FLAP), glutathione-S-transferase 12 (GST12), histamine-N-methyl
 transferase (HNMT), (kallikrein 2) KLK2, nicotinamide -N-methyl
 transferase (NMN), NADPH quinone oxidoreductase 2 (NQO2),
 sulfotransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4
 (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl
 transferase (UGT2B15), urokinase receptor (uPA), multidrug resistance 1
 (MDR1), lactotransferrin (LTF), multidrug resistance associated protein 3
 (MRP3), orphan nuclear receptor (NR1I2), or acetylcholine muscarinic
 receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or CHMR5) sequence.
 The polymorphisms in the human genes cited in the invention are useful as
 genetic linkage markers for locating and characterizing the genes that
 are responsible for specific traits within the genome and eventually
 identifying the genes responsible for a variety of disorder-related
 traits as a result of their e.g., overexpression, constitutive
 expression, mutation or underexpression, which may be used in diagnosing
 and/or treating the disorders. The nucleic acid molecules comprising the
 polymorphic sequences contained in CYP4501A1, CYP4501A2, CYP4502E1,

CC diseases that are characterised by development of tumours or cell
 CC degeneration, specifically cancer but also Alzheimer's disease and
 CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in
 CC patient samples is useful for diagnosis and/or prognosis of these
 CC diseases. The polypeptides can also be used to generate antibodies, and
 CC both the polypeptide and antibodies are useful as components of protein
 CC chips. The nucleic acid sequences of the invention can be used in gene
 CC therapy. This polynucleotide sequence represents a tumour suppression
 CC related human fukutin oligonucleotide of the invention
 XX
 SQ Sequence 17 BP; 5 A; 2 C; 4 G; 6 T; 0 U; 0 Other;
 Query Match 1.9%; Score 17; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 91;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 690 GATCACTTGGAGATT 706
 Db 1 GATCACTTGGAGATT 17
 RESULT 132
 ADI49574
 ID ADI49574 standard; DNA; 17 BP.
 XX
 AC ADI49574;
 XX
 DT 15-APR-2004 (first entry)
 XX
 DE Human tumour suppression/reversion-related DNA sequence SeqID2077.
 XX
 KW tumour suppression; tumour reversion; apoptosis; virus resistance;
 KW cytostatic; virucide; neuroprotective; nontropic; neuroleptic; probe;
 KW primer; PCR; gene chip; antisense; viral disease; tumour;
 KW cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.
 XX
 OS Homo sapiens.
 XX
 PN WO2003025177-A2.
 XX
 PD 27-MAR-2003.
 XX
 PF 17-SEP-2002; 2002WO-IB004523.
 XX
 PR 17-SEP-2001; 2001FR-00011980.
 XX
 PA (MOLE-) MOLECULAR ENGINES LAB.
 XX
 PI Telerman A, Anson R, Tuijnder M;
 XX
 DR WPI; 2003-313354/30.
 XX
 PT New isolated nucleic acid, useful for treating viral diseases associated
 PT with tumors and cell degeneration, also related polypeptides, antibodies
 PT and transfected cells.
 XX
 PS Disclosure; SEQ ID NO 2077; 30pp; French.
 XX
 CC This invention relates to novel isolated nucleic acid sequences involved
 CC in the phenomena of tumour suppression, tumour reversion, apoptosis
 CC and/or resistance to viruses. The invention may be useful for the
 CC development of compounds with a cytostatic, virucide, neuroprotective,
 CC nontropic or neuroleptic activity. The DNA sequences may be useful as
 CC probes and primers for detecting, identifying, quantifying and/or
 CC amplifying nucleic acid, for example as one component of a gene chip, in
 CC vitro as antisense reagents and for production of recombinant
 CC polypeptides. The invention may therefore be useful for preparation of
 CC pharmaceuticals for prevention and/or treatment of viral diseases that
 CC are characterised by development and/or treatment of tumours or cell degeneration,
 CC specifically cancer but also Alzheimer's disease and schizophrenia. The
 CC present sequence is that of a nucleic acid sequence of the invention.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO

CC at ftp.wipo.int/pub/publishedpct_sequences
 XX
 SQ Sequence 17 BP; 5 A; 2 C; 4 G; 6 T; 0 U; 0 Other;
 Query Match 1.9%; Score 17; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 91;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 690 GATCACTTGGAGATT 706
 Db 1 GATCACTTGGAGATT 17
 RESULT 133
 ADI52307
 ID ADI52307 standard; DNA; 17 BP.
 XX
 AC ADI52307;
 XX
 DT 15-APR-2004 (first entry)
 XX
 DE Human tumour suppression/reversion-related DNA sequence SeqID4810.
 XX
 KW tumour suppression; tumour reversion; apoptosis; virus resistance;
 KW cytostatic; virucide; neuroprotective; nontropic; neuroleptic; probe;
 KW primer; PCR; gene chip; antisense; viral disease; tumour;
 KW cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.
 XX
 OS Homo sapiens.
 XX
 PN WO2003025177-A2.
 XX
 PD 27-MAR-2003.
 XX
 PF 17-SEP-2002; 2002WO-IB004523.
 XX
 PR 17-SEP-2001; 2001FR-00011980.
 XX
 PA (MOLE-) MOLECULAR ENGINES LAB.
 XX
 PI Telerman A, Anson R, Tuijnder M;
 XX
 DR WPI; 2003-313354/30.
 XX
 PT New isolated nucleic acid, useful for treating viral diseases associated
 PT with tumors and cell degeneration, also related polypeptides, antibodies
 PT and transfected cells.
 XX
 PS Disclosure; SEQ ID NO 4810; 30pp; French.
 XX
 CC This invention relates to novel isolated nucleic acid sequences involved
 CC in the phenomena of tumour suppression, tumour reversion, apoptosis
 CC and/or resistance to viruses. The invention may be useful for the
 CC development of compounds with a cytostatic, virucide, neuroprotective,
 CC nontropic or neuroleptic activity. The DNA sequences may be useful as
 CC probes and primers for detecting, identifying, quantifying and/or
 CC amplifying nucleic acid, for example as one component of a gene chip, in
 CC vitro as antisense reagents and for production of recombinant
 CC polypeptides. The invention may therefore be useful for preparation of
 CC pharmaceuticals for prevention and/or treatment of viral diseases that
 CC are characterised by development and/or treatment of tumours or cell degeneration,
 CC specifically cancer but also Alzheimer's disease and schizophrenia. The
 CC present sequence is that of a nucleic acid sequence of the invention.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/publishedpct_sequences
 XX
 SQ Sequence 17 BP; 7 A; 5 C; 2 G; 3 T; 0 U; 0 Other;
 Query Match 1.9%; Score 17; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 91;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 517 GATCGCCCAATAACAT 533
 DB 1 GATCGCCCAATAACAT 17

RESULT 134
 ACC53333
 ID ACC53333 standard; DNA; 17 BP.
 XX
 AC ACC53333;
 XX
 DT 27-JUN-2003 (first entry)
 XX
 DE Human tumour suppressor sequence #2100.
 XX
 KW ss; tumour suppressor; antitumour; cytostatic; tumour suppression;
 KW tumour regression; apoptosis; virus resistance; diagnosis;
 KW cellular degeneration.
 XX
 OS Homo sapiens.
 XX
 FN FR2826373-A1.
 XX
 PD 27-DEC-2002.
 XX
 PF 20-JUN-2001; 2001FR-00008139.
 XX
 PR 20-JUN-2001; 2001FR-00008139.
 XX
 PA (MOLE-) MOLECULAR ENGINES LAB SA.
 XX
 PI Tuijnder M, Telerman A, Amson R;
 XX
 WPI; 2003-250498/25.
 XX
 DR New nucleic acid sequences associated with tumor suppression, regression,
 PT apoptosis or virus resistance are useful to diagnose and treat viral
 PT disease, development of tumor cells and cell degeneration.
 XX
 PS Claim 1; Page 525; 798pp; French.
 XX
 CC This sequence represents an isolated nucleic acid sequence associated
 CC with tumour suppression or regression, apoptosis or virus resistance. The
 CC invention relates to these sequences or sequences having at least 80%
 CC identity to them, and polypeptides encoded by the sequences or
 CC polypeptides having 80% identity to the polypeptide sequences. The
 CC invention is used to diagnose or treat viral disease or disease
 CC characterized by development of tumour cells or cellular degeneration
 XX
 SQ Sequence 17 BP; 7 A; 5 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 1.9%; Score 17; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 91;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 517 GATCGCCCAATAACAT 533
 DB 1 GATCGCCCAATAACAT 17

RESULT 135
 ACC51634
 ID ACC51634 standard; DNA; 17 BP.
 XX
 AC ACC51634;
 XX
 DT 27-JUN-2003 (first entry)
 XX
 DE Human tumour suppressor sequence #401.
 XX
 KW ss; tumour suppressor; antitumour; cytostatic; tumour suppression;
 KW tumour regression; apoptosis; virus resistance; diagnosis;
 KW cellular degeneration.

Query Match 1.9%; Score 17; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 91;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Homo sapiens.
 OS
 XX FR2826373-A1.
 FN
 XX 27-DEC-2002.
 PD
 XX 20-JUN-2001; 2001FR-00008139.
 PF
 XX 20-JUN-2001; 2001FR-00008139.
 PR
 XX (MOLE-) MOLECULAR ENGINES LAB SA.
 PA
 XX Tuijnder M, Telerman A, Amson R;
 PI
 XX WPI; 2003-250498/25.
 DR
 XX New nucleic acid sequences associated with tumor suppression, regression,
 PT apoptosis or virus resistance are useful to diagnose and treat viral
 PT disease, development of tumor cells and cell degeneration.
 XX
 PS Claim 1; Page 133; 798pp; French.
 XX
 CC This sequence represents an isolated nucleic acid sequence associated
 CC with tumour suppression or regression, apoptosis or virus resistance. The
 CC invention relates to these sequences or sequences having at least 80%
 CC identity to them, and polypeptides encoded by the sequences or
 CC polypeptides having 80% identity to the polypeptide sequences. The
 CC invention is used to diagnose or treat viral disease or disease
 CC characterized by development of tumour cells or cellular degeneration
 XX
 SQ Sequence 17 BP; 5 A; 2 C; 4 G; 6 T; 0 U; 0 Other;

Query Match 1.9%; Score 17; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 91;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCAGCTTGGAGATT 706
 DB 1 GATCAGCTTGGAGATT 17

RESULT 136
 ABQ75416
 ID ABQ75416 standard; DNA; 19 BP.
 XX
 AC ABQ75416;
 XX
 DT 06-NOV-2002 (first entry)
 XX
 DE CuZn superoxide dismutase (CuZn-SOD) PCR primer SEQ ID NO:13.
 XX
 KW AOP-1; cardiant; nootropic; neuroprotective; antirheumatic; nephrotropic;
 KW hepatotropic; heart disease; neurodegenerative disease; rheumatism;
 KW kidney disease; liver disease; CuZn superoxide dismutase; CuZn-SOD;
 KW PCR primer; ss.
 XX
 OS Synthetic.
 XX
 FN WO200264169-A1.
 PN
 XX 22-AUG-2002.
 PD
 XX 18-FEB-2002; 2002WO-JP001358.
 PF
 XX 16-FEB-2001; 2001JP-00041003.
 PR
 XX (SUNR) SUNTORY LTD.
 PA (SUNR) SUNTORY BIOMEDICAL RES LTD.
 XX
 PI Hattori F, Sugimura K, Furuya M;
 XX
 WPI; 2002-657567/70.
 DR

XX Remedies for treating diseases associated with a decrease in expression
PT of AOP-1 gene or AOP-1, also drug screening with the protein and encoded
PT gene, applicable e.g. in heart diseases, neurodegenerative diseases and
PT rheumatism.
XX Example 3; Page 31; 96pp; Japanese.
XX The present invention describes a method for preventing or treating
CC diseases associated with a decrease in the expression of AOP-1 gene or
CC AOP-1 comprises: (a) transferring e.g. a nucleic acid encoding AOP-1 gene
CC or; (b) administering a substance enhancing the expression of AOP-1
CC gene, a substance enhancing production of AOP-1 or a substance enhancing
CC the function of AOP-1. AOP-1 has cardiant, nootropic, neuroprotective,
CC antirheumatic, nephrotropic and hepatotropic activities. The method can
CC be used for treating diseases associated with a decrease in the
CC expression of AOP-1 gene or AOP-1, including heart diseases,
CC neurodegenerative diseases, rheumatism, kidney diseases and liver
CC diseases. The present sequence represents a PCR primer for CuZn
CC superoxide dismutase (CuZn-SOD), which is used in an example from the
CC present invention
XX Sequence 19 BP; 6 A; 2 C; 9 G; 2 T; 0 U; 0 Other;
SQ Query Match 1.9%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 292 GGATGAAGAGGCGCATG 308
Db 3 GGATGAAGAGGCGCATG 19
RESULT 137
AAQ67479/C
ID AAQ67479 standard; DNA; 21 BP.
XX AC AAQ67479;
XX 25-MAR-2003 (revised)
DT 31-MAY-1995 (first entry)
XX PCR primer for human SOD1 exon 2.
DE Human superoxide dismutase; hSOD1; neurodegeneration;
XX Alzheimer's disease; Parkinson's disease; Huntington's disease;
KW Hallervorden-Spatz disease; olivopontocerebellar atrophy;
KW familial amyotrophic lateral sclerosis; FALS; diagnosis; mutant SOD;
KW SSCP analysis; ss.
XX Synthetic.
OS WO9419493-A1.
XX 01-SEP-1994.
XX 28-FEB-1994; 94WO-US002089.
PF 26-FEB-1993; 93US-00023980.
PR (GEHO) GEN HOSPITAL CORP.
XX (MASI) MASSACHUSETTS INST TECHNOLOGY.
PA Brown R, Rosen DR;
XX WPI; 1994-294353/36.
XX Diagnosis, treatment and prevention of diseases of cell death - e.g.
PT amyotrophic lateral sclerosis, which are the result of e.g. decreased SOD
PT activity.
XX Claim 8; Fig 5; 94pp; English.
PS

CC The presence of a mutation in a gene encoding a superoxide dismutase
CC (SOD1, SOD2 or SOD3) indicates an increased likelihood of developing a
CC cell death disease, specifically a neurodegenerative disease. The DNA can
CC be analysed to detect mutant SOD sequences. Analysis is pref. preceded by
CC a PCR amplification step. AAQ67476- AAQ67485 are examples of PCR primers
CC which are useful for diagnosis of diseases linked to SOD1 mutations.
CC (Updated on 25-MAR-2003 to correct PN field.)
XX Sequence 21 BP; 3 A; 9 C; 2 G; 7 T; 0 U; 0 Other;
SQ Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 218 GGAGATAATACAGCAGG 234
Db 21 GGAGATAATACAGCAGG 5
RESULT 138
AAV73829/C
ID AAV73829 standard; DNA; 21 BP.
XX AC AAV73829;
XX 24-FEB-1999 (first entry)
DT Human SOD1 exon 2 PCR primer #2.
DE SOD1; SOD2; SOD3; Cu/Zn; superoxide dismutase; mitochondrial; treatment;
KW extracellular; neurodegenerative disease; amyotrophic lateral sclerosis;
KW familial; ALS; PCR primer; ss.
XX Synthetic.
OS Homo sapiens.
XX US5849290-A.
XX 15-DEC-1998.
PD 07-JUN-1995; 95US-00486953.
PF 26-FEB-1993; 93US-00023980.
PR 28-FEB-1994; 94US-00204052.
XX (MASI) MASSACHUSETTS INST TECHNOLOGY.
PA (GEHO) GEN HOSPITAL CORP.
XX Rosen DR, Brown R, Horvitz HR;
PI WPI; 1999-069657/06.
XX Treatment of neurodegenerative disease - by administering super-oxide
PT dismutase.
XX Disclosure; Fig 5; 53pp; English.
XX AAV73826-V73835 are PCR primers used in the amplification of a novel
CC human SOD1 gene which encodes a Cu/Zn SOD (superoxide dismutase) protein.
CC This protein can be used in a method for treating a neurodegenerative
CC disease particularly familial amyotrophic lateral sclerosis (ALS)
XX Sequence 21 BP; 3 A; 9 C; 2 G; 7 T; 0 U; 0 Other;
SQ Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 218 GGAGATAATACAGCAGG 234
Db 21 GGAGATAATACAGCAGG 5

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RESULT 139
AD055692/c
ID ADO55692 standard; DNA; 21 BP.
XX
XX
AC ADO55692;
XX
XX 15-JUL-2004 (first entry)
XX
DE Human cytosolic superoxide dismutase (Cu/ZnSOD) DNA, SOD1 PCR primer #4.
XX
XX Human; cytosolic superoxide dismutase; Cu/ZnSOD; SOD; SOD1; PCR; ss;
KW neurodegenerative disease; cell death disease; FALS; neoplasm; primer.
XX
XX Homo sapiens.
OS
XX US6723893-B1.
PN
XX 20-APR-2004.
PD
XX 28-FEB-1994; 94US-00204052.
PF
XX 26-FEB-1993; 93US-00023980.
PR
XX (MASI ) MASSACHUSETTS INST TECHNOLOGY.
PA (GEO ) GEN HOSPITAL CORP INC.
XX
XX Brown R, Horvitz HR, Rosen DR;
PI
XX WPI; 2004-326924/30.
DR
XX New transgenic mouse having somatic and germ cells containing a transgene
PT encoding and expressing a neurodegenerative disease-causing mutant SOD-1
PT polypeptide, useful for research or drug development.
XX
XX Disclosure; SEQ ID NO 7; 54pp; English.
PS
XX The invention relates to a transgenic mouse having somatic and germ cells
CC containing a transgene encoding and expressing a neurodegenerative
CC disease-causing mutant SOD1 polypeptide. The invention also relates to a
CC method of diagnosing an increased likelihood of developing cell death
CC disease in a patient, a kit for the diagnosis of cell death disease in a
CC patient, a method of treating a patient with a disease involving a mutant
CC SOD encoding gene, antibodies reactive with a FALS polypeptide, a method
CC of treating a patient with a neoplasm, a bacterial or yeast cell
CC containing a purified nucleic acid derived from a FALS gene, a purified
CC DNA encoding a purified FALS polypeptide and a purified FALS polypeptide.
CC The SOD1 polypeptide is a murine or human SOD1 polypeptide. The
CC expression of the mutant polypeptide is under the regulation of the wild-
CC type promoter. The transgenic mouse is useful for research or drug
CC development. This sequence represents a PCR primer used to amplify SOD1
CC DNA encoding the human cytosolic superoxide dismutase (Cu/ZnSOD)
CC polypeptide.
XX
SQ Sequence 21 BP; 3 A; 9 C; 2 G; 7 T; 0 U; 0 Other;
Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 218 GGAGATAATACAGCAGG 234
DB |||||
21 GGAGATAATACAGCAGG 5

RESULT 140
AD055743/c
ID ADO55743 standard; DNA; 21 BP.
XX
XX ADO55743;
AC
XX 15-JUL-2004 (first entry)
XX
DE Human cytosolic superoxide dismutase (Cu/ZnSOD) DNA, SOD1 PCR primer #13.
XX

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XX
KW Human; cytosolic superoxide dismutase; Cu/ZnSOD; SOD; SOD1; PCR; ss;
KW neurodegenerative disease; cell death disease; FALS; neoplasm; primer.
XX
XX Homo sapiens.
OS
XX US6723893-B1.
PN
XX 20-APR-2004.
PD
XX 28-FEB-1994; 94US-00204052.
PF
XX 26-FEB-1993; 93US-00023980.
PR
XX (MASI ) MASSACHUSETTS INST TECHNOLOGY.
PA (GEO ) GEN HOSPITAL CORP INC.
XX
XX Brown R, Horvitz HR, Rosen DR;
PI
XX WPI; 2004-326924/30.
DR
XX New transgenic mouse having somatic and germ cells containing a transgene
PT encoding and expressing a neurodegenerative disease-causing mutant SOD-1
PT polypeptide, useful for research or drug development.
XX
XX Example; Col 17-18; 54pp; English.
PS
XX The invention relates to a transgenic mouse having somatic and germ cells
CC containing a transgene encoding and expressing a neurodegenerative
CC disease-causing mutant SOD1 polypeptide. The invention also relates to a
CC method of diagnosing an increased likelihood of developing cell death
CC disease in a patient, a kit for the diagnosis of cell death disease in a
CC patient, a method of treating a patient with a disease involving a mutant
CC SOD encoding gene, antibodies reactive with a FALS polypeptide, a method
CC of treating a patient with a neoplasm, a bacterial or yeast cell
CC containing a purified nucleic acid derived from a FALS gene, a purified
CC DNA encoding a purified FALS polypeptide and a purified FALS polypeptide.
CC The SOD1 polypeptide is a murine or human SOD1 polypeptide. The
CC expression of the mutant polypeptide is under the regulation of the wild-
CC type promoter. The transgenic mouse is useful for research or drug
CC development. This sequence represents a PCR primer used to amplify SOD1
CC DNA encoding the human cytosolic superoxide dismutase (Cu/ZnSOD)
CC polypeptide.
XX
SQ Sequence 21 BP; 3 A; 9 C; 2 G; 7 T; 0 U; 0 Other;
Query Match 1.9%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 218 GGAGATAATACAGCAGG 234
DB |||||
21 GGAGATAATACAGCAGG 5

RESULT 141
AAT38674/c
ID AAT38674 standard; DNA; 20 BP.
XX
XX AAT38674;
AC
XX 21-JUL-1997 (first entry)
DT
XX Mouse SOD-1 exon 4 PCR primer EH129r.
DE
XX Murine; mouse; amyloid; precursor; protein; APP; SOD-1; humanisation;
KW homozygous; heterozygous; human; Abeta; Swedish; familial; Alzheimer's;
KW disease; FAD; mutation; tool; model; elucidation; pathology;
KW symptomatology; screen; inhibition; transgenic;
KW polymerase chain reaction; primer; PCR; amplification; exon 4; ss.
XX
XX Synthetic.
OS
XX

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PN WO9634097-A1.
XX
PD 31-OCT-1996.
XX
PF 26-APR-1996; 96WO-US005824.
XX
PR 26-APR-1995; 95US-00429207.
PR 23-APR-1996; 96US-00636876.
XX
PA (CEPH-) CEPHALON INC.
XX
PI Scott RW, Reaume AG, Trusko SP, Siman R, Hoffman EK;
XX WPI; 1996-497629/49.
XX
XX Transgenic mice with humanised amyloid precursor protein gene - having at
PT least 1 Swedish FAD mutation, useful as tools or models to elucidate role
PT of human A-beta in Alzheimer's disease.
XX
XX Example 16; Page 68; 123pp; English.
XX
XX The present sequence is a primer for the PCR amplification of exon 4 of
CC the murine SOD-1 gene, which was used to distinguish SOD deficient mice
CC that have lost both or 1 copy of the SOD-1 gene. The SOD-1 deficient mice
CC were used in the preparation of mice homozygous or heterozygous for a
CC targeted amyloid precursor protein (APP) encoding gene, comprising a
CC human Abeta peptide encoding sequence in place of the endogenous murine
CC sequence, and at least 1 Swedish Familial Alzheimer's Disease (FAD)
CC mutation. The mice can be used as tools, or models to elucidate the role
CC of human Abeta in AD pathology and symptomatology. They can also be used
CC to screen chemical compounds for the ability to inhibit in vivo
CC processing of APP, to yield the human Abeta peptide by administering the
CC chemical compounds to a mouse and measuring the relative amounts of
CC amyloidogenic and nonamyloidogenic processing of APP in a sample from the
CC mouse at an appropriate interval after administration of the chemical
CC compounds
XX
SQ Sequence 20 BP; 5 A; 6 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 389 GGAGACCATTCATCATTTGG 408
Db ||||| ||||| ||||| |||||
20 GGAGAGCATTCATCATTTGG 1

RESULT 142
AAAT93934/C
ID AAT93934 standard; DNA; 20 BP.
XX
AC AAT93934;
XX
XX 03-FEB-1998 (first entry)
XX
XX Primer for exon 23 of endothelial nitrogen monoxide synthase gene.
XX
XX Exon 23; PCR primer; single stranded conformational polymorphism; SSCP;
XX analysis; endothelial nitrogen monoxide synthase; eNOS;
XX genetic screening; coronary arterial spasm; angina pectoris; ss.
XX
XX Synthetic.
XX OS Homo sapiens.
XX
XX WO9718327-A1.
XX
XX 22-MAY-1997.
XX
XX 13-NOV-1996; 96WO-JP003324.
XX
XX 13-NOV-1995; 95JP-00319504.
XX
XX 28-JUN-1996; 96JP-00168761.
XX

(SHIO ) SHIONOGI & CO LTD.
XX
XX Yasue H, Yoshimura M;
XX WPI; 1997-289303/26.
XX
XX Genetic screening for diseases associated with coronary arterial spasm -
PT by assessment of the occurrence of specific mutation(s) of the
PT endothelial nitrogen monoxide synthase gene.
XX
XX Example 1; Page 14; 47pp; Japanese.
XX
XX The present sequence is an exon 23 primer for the polymerase chain
CC reaction-single stranded conformational polymorphism (PCR-SSCP) analysis
CC of the endothelial nitrogen monoxide synthase (eNOS) gene. The PCR-SSCP
CC analysis was used in an example of genetic screening method for diseases
CC associated with coronary arterial spasm, which comprises determining if 1
CC or more specific nucleotides in the eNOS gene have been substituted,
CC specifically G894T, C774T, T(-786)C, A(-922)G and T(-1468)A. Screening
CC for diseases associated with coronary spasm, e.g angina pectoris, cannot
CC be easily carried out by existing methods, this method allows rapid and
CC easy detection
XX
SQ Sequence 20 BP; 3 A; 5 C; 5 G; 7 T; 0 U; 0 Other;
Query Match 1.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 168 GCATTAAAGGACTGACTGAA 187
Db ||||| ||||| ||||| |||||
20 GCCTAAAGGACTGCCTGAA 1

RESULT 143
AAQ67482
ID AAQ67482 standard; DNA; 21 BP.
XX
AC AAQ67482;
XX
XX 25-MAR-2003 (revised)
XX 31-MAY-1995 (first entry)
XX
XX PCR primer for human SOD1 exon 4.
XX
XX Human superoxide dismutase; hSOD1; neurodegeneration;
XX Alzheimer's disease; Parkinson's disease; Huntington's disease;
XX Hallervorden-Spatz disease; olivopontocerebellar atrophy;
XX familial amyotrophic lateral sclerosis; FALS; diagnosis; mutant SOD;
XX SSCP analysis; ss.
XX
XX Synthetic.
XX
XX WO9419493-A1.
XX
XX 01-SEP-1994.
XX
XX 28-FEB-1994; 94WO-US002089.
XX
XX 26-FEB-1993; 93US-00023980.
XX
XX (GEHO ) GEN HOSPITAL CORP.
XX (MASI ) MASSACHUSETTS INST TECHNOLOGY.
XX
XX Brown R, Horvitz HR, Rosen DR;
XX WPI; 1994-294353/36.
XX
XX Diagnosis, treatment and prevention of diseases of cell death - e.g.
XX amyotrophic lateral sclerosis, which are the result of e.g. decreased SOD
XX activity.
XX

```

PS Claim 8; Fig 5; 94pp; English.

XX The presence of a mutation in a gene encoding a superoxide dismutase

CC (SOD1, SOD2 or SOD3) indicates an increased likelihood of developing a

CC cell death disease, specifically a neurodegenerative disease. The DNA can

CC be analysed to detect mutant SOD sequences. Analysis is pref. preceded by

CC a PCR amplification step. AAQ67476- AAQ67485 are examples of PCR primers

CC which are useful for diagnosis of diseases linked to SOD1 mutations.

CC (Updated on 25-MAR-2003 to correct PN field.)

XX

SQ Sequence 21 BP; 6 A; 3 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 1.9%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.2e+02;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317

DB 2 ATATAGGCATGTTGGAGACT 21

RESULT 144

AAV73832

ID AAV73832 standard; DNA; 21 BP.

XX

AC AAV73832;

XX

DT 24-FEB-1999 (first entry)

XX

DE Human SOD1 exon 4 PCR primer #1.

XX

KW SOD1; SOD2; SOD3; Cu/Zn; superoxide dismutase; mitochondrial; treatment;

KW extracellular; neurodegenerative disease; amyotrophic lateral sclerosis;

KW familial; ALS; PCR primer; ss.

XX

OS Synthetic.

OS Homo sapiens.

XX

PN US5849290-A.

XX

PD 15-DEC-1998.

XX

PF 07-JUN-1995; 95US-00486953.

XX

PR 26-FEB-1993; 93US-00023980.

PR 28-FEB-1994; 94US-00204052.

XX

PA (MASI) MASSACHUSETTS INST TECHNOLOGY.

PA (GEO) GEN HOSPITAL CORP.

XX

PI Rosen DR, Brown R, Horvitz HR;

XX

DR WPI; 1999-069657/06.

XX

PT Treatment of neurodegenerative disease - by administering super-oxide

PT dismutase.

XX

PS Disclosure; Fig 5; 53pp; English.

XX

XX AAV73826-V73835 are PCR primers used in the amplification of a novel

CC human SOD1 gene which encodes a Cu/Zn SOD (superoxide dismutase) protein.

CC This protein can be used in a method for treating a neurodegenerative

CC disease particularly familial amyotrophic lateral sclerosis (ALS)

XX

SQ Sequence 21 BP; 6 A; 3 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 1.9%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.2e+02;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317

DB 2 ATATAGGCATGTTGGAGACT 21

RESULT 145

AD055695

ID AD055695 standard; DNA; 21 BP.

XX

AC AD055695;

XX

DT 15-JUL-2004 (first entry)

XX

DE Human cytosolic superoxide dismutase (Cu/ZnSOD) DNA, SOD1 PCR primer #7.

XX

KW Human; cytosolic superoxide dismutase; Cu/ZnSOD; SOD; SOD1; PCR; ss;

KW neurodegenerative disease; cell death disease; FALS; neoplasm; primer.

XX

OS Homo sapiens.

XX

PN US6723893-B1.

XX

PD 20-APR-2004.

XX

PF 28-FEB-1994; 94US-00204052.

XX

PR 26-FEB-1993; 93US-00023980.

XX

PA (MASI) MASSACHUSETTS INST TECHNOLOGY.

PA (GEO) GEN HOSPITAL CORP INC.

XX

PI Brown R, Horvitz HR, Rosen DR;

XX

DR WPI; 2004-326924/30.

XX

PT New transgenic mouse having somatic and germ cells containing a transgene

PT encoding and expressing a neurodegenerative disease-causing mutant SOD-1

PT polypeptide, useful for research or drug development.

XX

PS Disclosure; SEQ ID NO 10; 54pp; English.

XX

CC The invention relates to a transgenic mouse having somatic and germ cells

CC containing a transgene encoding and expressing a neurodegenerative

CC disease-causing mutant SOD1 polypeptide. The invention also relates to a

CC method of diagnosing an increased likelihood of developing cell death

CC disease in a patient, a kit for the diagnosis of cell death disease in a

CC patient, a method of treating a patient with a disease involving a mutant

CC SOD encoding gene, antibodies reactive with a FALS polypeptide, a method

CC of treating a patient with a neoplasm, a bacterial or yeast cell

CC containing a purified nucleic acid derived from a FALS gene, a purified

CC DNA encoding a purified FALS polypeptide and a purified FALS polypeptide.

CC The SOD1 polypeptide is a murine or human SOD1 polypeptide. The

CC expression of the mutant polypeptide is under the regulation of the wild-

CC type promoter. The transgenic mouse is useful for research or drug

CC development. This sequence represents a PCR primer used to amplify SOD1

CC DNA encoding the human cytosolic superoxide dismutase (Cu/ZnSOD)

CC polypeptide.

XX

SQ Sequence 21 BP; 6 A; 3 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 1.9%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.2e+02;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 298 AGAGAGGCATGTTGGAGACT 317

DB 2 ATATAGGCATGTTGGAGACT 21

RESULT 146

ADI79800/C

ID ADI79800 standard; DNA; 20 BP.

XX

AC ADI79800;

XX

DT 22-APR-2004 (first entry)


```

XX DE Human HMG-CoA reductase antisense oligonucleotide, SEQ ID No 323.
XX XX
XX KW HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;
XX KW HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipaeamic;
XX KW antisense gene therapy; cardiovascular disorder; cholesterol metabolism;
XX KW human; ss.
XX OS Homo sapiens.
XX PN US2004006031-A1.
XX PD 08-JAN-2004.
XX PF 02-JUL-2002; 2002US-00190366.
XX PR 02-JUL-2002; 2002US-00190366.
XX XX
XX PA (ISIS-) ISIS PHARM INC.
XX XX
XX PI Dean NM, Freier SM, Dobie KW;
XX PI WPI; 2004-081743/08.
XX PD
XX PF New compounds, particularly antisense oligonucleotides targeted to a
XX PF nucleic acid encoding HMG-CoA reductase, useful for treating
XX PR atherosclerosis, or a disease involving cholesterol metabolism or
XX PR angiogenesis.
XX XX
XX PA Example 16; SEQ ID NO 323; 110pp; English.
XX XX
XX CC The invention relates to novel compounds of 8-80 nucleobases in length
XX CC targeted to, and which specifically hybridises with, a nucleic acid
XX CC molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)
XX CC reductase, and inhibits the expression of HMG-CoA reductase. The novel
XX CC compounds have cardiant, antiarteriosclerotic, and antilipaeamic
XX CC activities. The compound can be used to treat disorders by antisense gene
XX CC therapy. The compounds, compositions and methods are useful for treating
XX CC a disease or condition associated with HMG-CoA reductase, such as a
XX CC cardiovascular disorder e.g. atherosclerosis, or a disease or condition
XX CC involving cholesterol metabolism. They are also useful in research and
XX CC diagnostics for modulating the expression of HMG-CoA reductase. This
XX CC polynucleotide sequence represents an antisense oligonucleotide of the
XX CC invention.
XX SQ Sequence 20 BP; 7 A; 2 C; 6 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 1.9%; Score 16.4; DB 1; Length 20;
XX Best Local Similarity 94.4%; Pred. No. 1.2e+02;
XX Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 807 TCATTCAAGCCTGTGAAT 824
DB 18 TCATTCAAGCCTGTCAAT 1
XX
RESULT 147
AD179603
ID AD179603 standard; DNA; 20 BP.
XX
XX AC AD179603;
XX XX
XX DT 22-APR-2004 (first entry)
XX XX
XX DE Human HMG-CoA reductase antisense oligonucleotide, SEQ ID No 126.
XX XX
XX KW HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;
XX KW HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipaeamic;
XX KW antisense gene therapy; cardiovascular disorder; cholesterol metabolism;
XX KW human; ss.
XX OS Homo sapiens.
XX XX
XX PN US2004006031-A1.
XX PD 08-JAN-2004.
XX PF 02-JUL-2002; 2002US-00190366.
XX PR 02-JUL-2002; 2002US-00190366.
XX XX
XX PA (ISIS-) ISIS PHARM INC.
XX XX
XX PI Dean NM, Freier SM, Dobie KW;
XX PI WPI; 2004-081743/08.
XX PD
XX PF New compounds, particularly antisense oligonucleotides targeted to a
XX PF nucleic acid encoding HMG-CoA reductase, useful for treating
XX PR atherosclerosis, or a disease involving cholesterol metabolism or
XX PR angiogenesis.
XX XX
XX PA Example 15; SEQ ID NO 126; 110pp; English.
XX XX
XX CC The invention relates to novel compounds of 8-80 nucleobases in length
XX CC targeted to, and which specifically hybridises with, a nucleic acid
XX CC molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)
XX CC reductase, and inhibits the expression of HMG-CoA reductase. The novel
XX CC compounds have cardiant, antiarteriosclerotic, and antilipaeamic
XX CC activities. The compound can be used to treat disorders by antisense gene
XX CC therapy. The compounds, compositions and methods are useful for treating
XX CC a disease or condition associated with HMG-CoA reductase, such as a
XX CC cardiovascular disorder e.g. atherosclerosis, or a disease or condition
XX CC involving cholesterol metabolism. They are also useful in research and
XX CC diagnostics for modulating the expression of HMG-CoA reductase. This
XX CC polynucleotide sequence represents an antisense oligonucleotide of the
XX CC invention.
XX SQ Sequence 20 BP; 5 A; 6 C; 2 G; 7 T; 0 U; 0 Other;
XX
XX Query Match 1.9%; Score 16.4; DB 1; Length 20;
XX Best Local Similarity 94.4%; Pred. No. 1.2e+02;
XX Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 807 TCATTCAAGCCTGTGAAT 824
DB 3 TCATTCAAGCCTGTCAAT 20
XX
RESULT 148
AAF91027/C
ID AAF91027 standard; DNA; 17 BP.
XX
XX AC AAF91027;
XX XX
XX DT 04-MAY-2001 (first entry)
XX XX
XX DE Human multi drug resistance-1 gene related sequence SEQ ID NO: 114.
XX XX
XX KW Human; MDR-1; multi drug resistance-1; drug uptake; disease; cancer;
XX KW inflammatory disease; neuronal disease; CNS disease;
XX KW cardiovascular disease; PCR primer; ss.
XX XX
XX OS Homo sapiens.
XX XX
XX PN WO200109183-A2.
XX PD 08-FEB-2001.
XX XX
XX PF 28-JUL-2000; 2000WO-EP007314.
XX XX
XX PR 30-JUL-1999; 99EP-00114938.
XX PR 22-FEB-2000; 2000EP-00103361.
XX XX
XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX XX

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XX SQ Sequence 17 BP; 5 A; 2 C; 5 G; 5 T; 0 U; 0 Other;
Query Match 1.8%; Score 16; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 GATCACTTGGAGATT 705
DB 1 GATCACTTGGAGATT 16

RESULT 151
ABK41012/C
ID ABK41012 standard; DNA; 18 BP.
XX AC ABK41012;
XX DT 21-MAY-2002 (first entry)
XX DE Human obesity-associated biallelic marker upstream PCR primer #89.
XX KW Human; obesity associated-biallelic marker; chromosome 10; obesity; ss;
XX KW drug response; hyperuricaemia; digestive pathology; hypertension; cancer;
XX KW hepatic function disorder; cardiovascular disease; hyperlipidaemia; PCR;
XX KW insulin disorder; atheromatous disease; cardiac insufficiency; primer.
XX OS Homo sapiens.
XX PN WO200206525-A2.
XX PD 24-JAN-2002.
XX PF 28-JUN-2001; 2001WO-1B001477.
XX PR 18-JUL-2000; 2000US-0219704P.
XX PA (GEST ) GENSET.
XX PI Cohen D, Blumenfeld M, Chumakov I, Abderrahim H, Bihain B;
XX WPI; 2002-155043/20.
XX Set of novel map-related biallelic markers, preferably located on obesity
XX disorder-associated chromosomal regions on chromosomes 3, 10 and 19,
XX useful, for e.g. detecting statistical correlations between marker allele
XX and a phenotype.
XX Example 2; Page 246; 311pp; English.
XX The invention relates to a set of novel map-related biallelic markers,
XX preferably located on obesity disorder-associated chromosomal regions on
XX chromosomes 3, 10 and 19. The markers are useful for genotyping or
XX estimating the frequency of an allele in a population, for detecting an
XX association between a genotype or haplotype and a phenotype, e.g. a
XX disease involving drug responses, obesity or disorders related to
XX obesity, such as hyperuricaemia, digestive pathology, hepatic function
XX disorders, cancer, cardiovascular disease, hypertension, hyperlipidaemia,
XX insulin disorders, atheromatous disease and cardiac insufficiency. The
XX markers are useful for detecting a statistical correlation between a
XX biallelic marker allele and a phenotype and/or between a biallelic marker
XX haplotype and a phenotype. This sequence represents a PCR primer used to
XX amplify a human obesity-associated biallelic marker
XX Sequence 18 BP; 3 A; 10 C; 0 G; 5 T; 0 U; 0 Other;
Query Match 1.8%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 TGAAGGTGCGGGAAG 168
DB 16 TGAAGGTGCGGGAAG 1
```

```
RESULT 152
AAL50752
ID AAL50752 standard; DNA; 19 BP.
XX AC AAL50752;
XX DT 15-JAN-2004 (first entry)
XX DE PAL/alpha-tubulin-related unpredictable PCR (UP-PCR) primer #13.
XX KW PAL promoter; transgenic plant; protein expression; UP-PCR; primer;
XX KW alpha-tubulin promoter; ss.
XX OS Unidentified.
XX PN US6441273-B1.
XX PD 27-AUG-2002.
XX PF 07-APR-2000; 2000US-00545686.
XX PR 08-FEB-2000; 2000US-0184934P.
XX PA (CORR ) CORNELL RES FOUND INC.
XX Aldwinckle HS, Gaitan AL;
XX WPI; 2002-711537/77.
XX A novel DNA promoter, preferably a phenylalanine ammonia lyase promoter,
XX useful for making a transgenic plant, induces expression of protein
XX encoded by a second DNA operably associated with a DNA promoter.
XX Example 11; Col 28; 48pp; English.
XX The invention comprises the PAL promoter sequence isolated from Coffea
XX arabica (coffee) which is capable of inducing the expression of a protein
XX that it is operably associated with. The promoter sequence of the
XX invention is useful in the production of a transgenic plant and in
XX directing protein expression in plants. The present DNA sequence
XX represents a primer that was used in an unpredictable-PCR (UP-PCR)
XX protocol in an example of the invention
XX SQ Sequence 19 BP; 3 A; 4 C; 4 G; 6 T; 0 U; 2 Other;
Query Match 1.8%; Score 16; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 1.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 195 ATGGATTCCATGTTTCATG 212
DB 1 ATGGATTCCATGTTTCATG 18

RESULT 153
ADM83390
ID ADM83390 standard; DNA; 19 BP.
XX AC ADM83390;
XX DT 03-JUN-2004 (first entry)
XX DE Coffea arabica PAL gene gene-walking PCR primer 13.
XX KW Promoter; alpha-tubulin promoter; phenylalanine ammonia lyase promoter;
XX KW PAL; protein expression; pathogen resistant cultivar; coffee; PCR;
XX KW primer; ss.
XX OS Coffea arabica.
XX PN US2003163837-A1.
```

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XX PD 28-AUG-2003.
XX PF 16-JUL-2002; 2002US-00197280.
XX PR 08-FEB-2000; 2000US-0180934P.
XX PR 07-APR-2000; 2000US-00545686.
XX (ALDW/) ALDWINCKLE H S.
XX PA (GAIT/) GAITAN A L.
XX PI Aldwinckle HS, Gaitan AL;
XX XX WPI; 2003-897980/82.
XX DR New DNA promoter for inducing expression of a protein encoded by a second
XX PT DNA operably associated with the DNA promoter isolated from coffee,
XX PT useful for directing protein expression in plants.
XX PS Example 11; SEQ ID NO 27; 50pp; English.
XX CC The present invention relates to the isolation of two DNA promoters
XX CC (alpha-tubulin and phenylalanine ammonia lyase) from a coffee plant
XX CC capable of inducing the expression of a second DNA operably linked to the
XX CC promoter. The invention is useful for directing protein expression in
XX CC plants. The invention is also useful for the development of pathogen
XX CC resistant cultivars of coffee, improve other characteristics of coffee
XX CC plants such as hardness, production and cup quality and overcoming the
XX CC deficiencies of the methods for fighting disease in the coffee plant. The
XX CC present sequence is coffea arabica PAL gene gene-walking PCR primer. The
XX CC primer is used in the exemplification of the invention.
XX XX Sequence 19 BP; 3 A; 4 C; 4 G; 6 T; 0 U; 2 Other;
SQ Query Match 1.8%; Score 16; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 1.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 195 ATGGATTCCATGTTTCATG 212
DB 1 ATGGNTTCCATGTCATG 18

RESULT 154
ACF62527
ID ACF62527 standard; DNA; 17 BP.
XX AC ACF62527;
XX DT 08-OCT-2003 (first entry)
XX DE Cancer based on CYP3A5 related oligonucleotide SEQ ID NO:356.
XX KW Cancer; CYP3A5; irinotecan; pharmaceutical; malignant glioma;
XX KW cytochrome p450; subfamily IIIA; nifedipine oxidase; polypeptide 5;
XX KW cytosolic; PCR primer; ss.
XX OS Synthetic.
XX PN WO2003013534-A2.
XX PD 20-FEB-2003.
XX PF 23-JUL-2002; 2002WO-EP008219.
XX PR 23-JUL-2001; 2001EP-00117608.
XX PR 24-MAY-2002; 2002EP-00011710.
XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX PI Heinrich G, Kerb R;
XX XX WPI; 2003-268144/26.

XX PD 28-AUG-2003.
XX PF 16-JUL-2002; 2002US-00197280.
XX PR 08-FEB-2000; 2000US-0180934P.
XX PR 07-APR-2000; 2000US-00545686.
XX (ALDW/) ALDWINCKLE H S.
XX PA (GAIT/) GAITAN A L.
XX PI Aldwinckle HS, Gaitan AL;
XX XX WPI; 2003-897980/82.
XX DR New DNA promoter for inducing expression of a protein encoded by a second
XX PT DNA operably associated with the DNA promoter isolated from coffee,
XX PT useful for directing protein expression in plants.
XX PS Example 11; SEQ ID NO 27; 50pp; English.
XX CC The present invention describes the use of irinotecan (I) or its
XX CC derivative for the preparation of a pharmaceutical composition for
XX CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic
XX CC cancer, or malignant glioma in a subject having a genome with a variant
XX CC allele which comprises a cytochrome p450, subfamily IIIA (nifedipine
XX CC oxidase), polypeptide 5 (CYP3A5) polynucleotide (II). (I) and (II) have
XX CC cytostatic activity. The therapeutic applications of (I) is improved,
XX CC since it is possible to individually treat a subject with an appropriate
XX CC dosage and/or an appropriate derivative of (I). Therefore, undesirable,
XX CC harmful or toxic effects are efficiently avoided. Unnecessary and
XX CC potentially harmful treatment of those subjects who do not respond to the
XX CC treatment with substances (nonresponders), as well as the development of
XX CC drug resistances due to suboptimal drug dosing can be avoided. ACF62200
XX CC to ACF62751 and ABM34912 to ABM35013 represent sequences used in the
XX CC exemplification of the present invention
XX XX Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;
SQ Query Match 1.8%; Score 15.6; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.2e+02;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 321 GCATGTGACTGCTGA 336
DB 2 GCATGTGACTGCTGA 17

RESULT 155
ADB21198
ID ADB21198 standard; DNA; 17 BP.
XX AC ADB21198;
XX DT 20-NOV-2003 (first entry)
XX DE MRP1 based cancer related nucleic acid SEQ ID NO:356.
XX KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;
XX KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
XX KW variant allele; multidrug resistance protein 1; MRP1; cytostatic; gene;
XX KW ds.
XX OS Unidentified.
XX PN WO2003013533-A2.
XX PD 20-FEB-2003.
XX PF 23-JUL-2002; 2002WO-EP008200.
XX PR 23-JUL-2001; 2001EP-00117608.
XX PR 24-MAY-2002; 2002EP-00011710.
XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX PI Heinrich G, Kerb R;
XX XX WPI; 2003-354397/33.
XX DR Use of irinotecan or its derivative for preparation of a pharmaceutical
XX PT composition for treating cancer in a subject having a genome with a
XX PT variant allele comprising a multidrug resistance protein 1
XX PT polynucleotide.
XX PS Disclosure; Page 51; 100pp; English.

```

CC The present invention describes a method for the use of irinotecan (I) or
 CC its derivative for the preparation of a pharmaceutical composition for
 CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic
 CC cancer, or malignant glioma in a subject having a genome with a variant
 CC allele which comprises a multidrug resistance protein 1 (MRP1)
 CC polynucleotide (II). (I) has cytostatic activity. (I) or its derivative
 CC can be used for the preparation of a pharmaceutical composition for
 CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic
 CC cancer, or malignant glioma in a subject, where the subject is a human
 CC (preferably African or Asian) or a mouse. The present sequence represents
 CC a sequence which is used in the exemplification of the present invention.

XX SQ Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;
 Query Match 1.8%; Score 15.6; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.2e+02;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
 DB 2 GCAATGTRACTGCTGA 17
 |||||:|||||

RESULT 156
 ADB88287
 ID ADB88287 standard; DNA; 17 BP.

XX ADB88287;
 XX
 XX 04-DEC-2003 (first entry)

XX Human UGT1A1 variant allele sequence fragment SEQ ID NO:328.

XX ss; irinotecan; cancer; UGT1A1; cytostatic; topoisomerase I inhibitor;
 KW colorectal cancer; cervical cancer; gastric cancer; lung cancer;
 KW ovarian cancer; pancreatic cancer; malignant glioma;
 KW uridine diphosphate glycosyltransferase1 member A1.

XX Homo sapiens.
 XX WO2003013536-A2.
 XX 20-FEB-2003.

XX 23-JUL-2002; 2002WO-EP008217.
 XX 23-JUL-2001; 2001EP-00117608.
 XX 24-MAY-2002; 2002EP-00011710.

XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.

XX Heinrich G, Kerb R;
 XX WPI; 2003-289896/28.

XX Use of irinotecan to treat cancer patient by determining if patient has
 PT variant alleles of UGT1A1 gene, administering increased/decreased amounts
 PT of irinotecan based on increased/decreased levels of UGT1A1 gene product.

XX Disclosure; Page 55; 107pp; English.

XX The invention relates to the novel use of irinotecan to treat a patient
 CC suffering from cancer. This involves determining if the patient has one
 CC or more variant alleles of the UGT1A1 gene, and if the patient has one or
 CC more of such variant alleles, irinotecan is administered in an increased
 CC or decreased amount in comparison to the amount that is administered
 CC without regard to the patient's alleles in the UGT1A1 gene. The invention
 CC has cytostatic activity. A composition of the invention acts as a
 CC topoisomerase I inhibitor. The method is useful for treating a patient,
 CC an animal e.g. mouse or a human, preferably African or Asian, suffering
 CC from cancer such as colorectal, cervical, gastric cancer, lung, ovarian,
 CC pancreatic cancer or malignant glioma. The present sequence is used in
 CC the exemplification of the invention.

XX SQ Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;
 Query Match 1.8%; Score 15.6; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.2e+02;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
 DB 2 GCAATGTRACTGCTGA 17
 |||||:|||||

RESULT 157
 ADB97270
 ID ADB97270 standard; DNA; 17 BP.

XX ADB97270;
 XX
 XX 04-DEC-2003 (first entry)

XX Human MDR1 variant allele sequence fragment SEQ ID NO:356.

XX irinotecan; colorectal cancer; cervical cancer; gastric cancer;
 KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
 KW multidrug resistance 1; MDR1; cytostatic; human; ds; Cyp3A5; MRP1; MDR1;
 KW TOPI.

XX Homo sapiens.
 XX WO2003013537-A2.
 XX 20-FEB-2003.

XX 23-JUL-2002; 2002WO-EP008218.
 XX 23-JUL-2001; 2001EP-00117608.
 XX 24-MAY-2002; 2002EP-00011710.

XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.

XX Heinrich G, Kerb R;
 XX WPI; 2003-268145/26.

XX New use of irinotecan for preparation of pharmaceutical compositions for
 PT treating cancer in subject having genome with variant allele comprising
 PT multidrug resistance 1 polynucleotide.

XX Disclosure; Page 79; 130pp; English.

XX The invention relates to the novel use of irinotecan or its derivative
 CC for the preparation of pharmaceutical compositions for treating
 CC colorectal, cervical, gastric, lung, ovarian or pancreatic cancer, or
 CC malignant glioma in a subject having a genome with a variant allele which
 CC comprises a multidrug resistance 1 (MDR1) polynucleotide. A composition
 CC of the invention has cytostatic activity. The invention is useful for the
 CC preparation of pharmaceutical compositions for treating colorectal,
 CC cervical, gastric, lung, ovarian or pancreatic cancer, or malignant
 CC glioma in a subject (preferably human, more preferably African or Asian)
 CC or a mouse. The present sequence is used in the exemplification of the
 CC invention.

XX SQ Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;
 Query Match 1.8%; Score 15.6; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.2e+02;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
 DB 2 GCAATGTRACTGCTGA 17
 |||||:|||||

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RESULT 158
ADB92461
XX ADB92461 standard; DNA; 17 BP.
XX
AC ADB92461;
XX
DT 04-DEC-2003 (first entry)
XX
DE Human MDR1 variant allele sequence fragment SEQ ID NO:356.
XX
KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;
KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
KW multidrug resistance 1; MDR1; cytostatic; ds; human; UGT1A1; MRP1; TOP1.
XX
OS Homo sapiens.
XX
PN WO2003013535-A2.
XX
PD 20-FEB-2003.
XX
PF 23-JUL-2002; 2002WO-EP008220.
XX
PR 23-JUL-2001; 2001EP-00117608.
XX
PR 24-MAY-2002; 2002EP-00011710.
XX
PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX
PI Heinrich G, Kerb R;
XX
DR WPI; 2003-342400/32.
XX
PT New use of irinotecan for preparation of pharmaceutical compositions for
PT treating cancer in subject having genome with variant allele comprising
PT multidrug resistance 1 polynucleotide.
XX
PS Disclosure; Page 50; 104pp; English.
XX
CC The invention relates to a novel use of irinotecan or its derivative for
CC the preparation of a pharmaceutical composition for treating colorectal,
CC cervical, gastric, lung, ovarian or pancreatic cancer, or malignant
CC glioma in a subject having a genome with a variant allele which comprises
CC a multidrug resistance 1 (MDR1) polynucleotide. A composition of the
CC invention has cytostatic activity. The present sequence is used in the
CC exemplification of the invention.
XX
SQ Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;
Query Match 1.8%; Score 15.6; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.2e+02;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 321 GCAATGTGACTGCTGA 336
DB 2 GCAATGTRACTGCTGA 17
RESULT 159
AAF03382/C
ID AAF03382 standard; DNA; 17 BP.
XX
AC AAF03382;
XX
DT 16-FEB-2001 (first entry)
XX
DE Hammerhead ribozyme substrate #1677.
XX
KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;
KW interferon alpha; ss.
XX
OS Homo sapiens.
XX
PN WO2000061729-A2.
XX
XX
PD 19-OCT-2000.
XX
PF 11-APR-2000; 2000WO-US009721.
XX
PR 12-APR-1999; 99US-0129390P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Blatt L, Zwick M, Pavco P, Mcswiggen J;
XX
DR WPI; 2000-647423/62.
XX
PT Enzymatic and antisense nucleic acid inhibition of repressor genes,
PT useful for producing e.g. granulocyte colony stimulating factor protein,
PT interferon alpha and erythropoietin.
XX
PS Claim 37; Page 94; 164pp; English.
XX
CC The present invention relates to enzymatic and antisense nucleic acid
CC molecules that act as inhibitors of the expression of repressor genes
CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
CC factor gene, IRF-2 and/or the CAAAT Displacement Protein (CDP).
CC Inhibition of the repressors removes prevents inhibition (and
CC consequently increases expression of) genes involved in the production of
CC erythropoietin, granulocyte colony stimulating factor protein and
CC interferon alpha
XX
SQ Sequence 17 BP; 2 A; 3 C; 1 G; 11 T; 0 U; 0 Other;
Query Match 1.8%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 1.2e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 459 ATGAGAGAAAGTACAAAG 475
DB 17 ATGAGAGAAATACAAAG 1
RESULT 160
AAF03383/C
ID AAF03383 standard; DNA; 17 BP.
XX
AC AAF03383;
XX
DT 16-FEB-2001 (first entry)
XX
DE Hammerhead ribozyme substrate #1678.
XX
KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;
KW interferon alpha; ss.
XX
OS Homo sapiens.
XX
PN WO2000061729-A2.
XX
PD 19-OCT-2000.
XX
PF 11-APR-2000; 2000WO-US009721.
XX
PR 12-APR-1999; 99US-0129390P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Blatt L, Zwick M, Pavco P, Mcswiggen J;
XX
DR WPI; 2000-647423/62.
XX
PT Enzymatic and antisense nucleic acid inhibition of repressor genes,
PT useful for producing e.g. granulocyte colony stimulating factor protein,
PT interferon alpha and erythropoietin.
XX
PS Claim 37; Page 94; 164pp; English.
XX
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CC The present invention relates to enzymatic and antisense nucleic acid
 CC molecules that act as inhibitors of the expression of repressor genes
 CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
 CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).
 CC Inhibition of the repressors removes prevents inhibition (and
 CC consequently increases expression of) genes involved in the production of
 CC erythropoietin, granulocyte colony stimulating factor protein and
 CC interferon alpha
 XX
 SQ Sequence 17 BP; 2 A; 2 C; 1 G; 12 T; 0 U; 0 Other;

Query Match 1.8%; Score 15.4; DB 1; Length 17;
 Best Local Similarity 94.1%; Pred. No. 1.2e+02;
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 458 AATGAAGAAAGTACAAA 474
 DB 17 ATGAGAGAAATACAAA 1

RESULT 161

AAAN71205
 ID AAAN71205 standard; cDNA; 15 BP.

XX
 AC AAAN71205;

DT 03-MAY-1991 (first entry)

XX Sequence of probe for human superoxide dismutase (hsOD).

XX Enzyme; arthro-rheumatoid osteoarthritis; radiation-induced effects; ss.

XX Homo sapiens.

XX DE3628508-A.

XX 12-MAR-1987.

XX 22-AUG-1986; 86DE-03628508.

XX 23-AUG-1985; 85JP-00185246.

PR 15-AUG-1986; 86JP-00191235.

XX (TOXN) TOYO JOZO KK.

XX Sagai H, Takahara M, Katsuragi S, Kajiwara J, Masujima H;

XX WPI; 1987-073705/11.

XX New polypeptide analogues of human superoxide dismutase - and metal contg.
 PT dimers, useful e.g. for treating osteoarthritis.

XX Example; p5; 25pp; German.

XX cDNA encoding hsOD (AAAN71204) is isolated using a 5-triplet probe
 CC (AAAN71205). The cDNA is subjected to site-specific mutagenesis and
 CC expressed to produce hsOD analogues (AAP70930) which are claimed

XX Sequence 15 BP; 4 A; 4 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 1.7%; Score 15; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 65 ATGGCGACGAGGCC 79

DB 1 ATGGCGACGAGGCC 15

RESULT 162

AAQ61567
 ID AAQ61567 standard; DNA; 15 BP.

XX

AC AAQ61567;
 XX 11-NOV-1994 (first entry)
 DT Human SOD probe.
 DE Human; porcine; super oxide dismutase; SOD; vector; hybrid; expression;
 XX ss.
 KW Synthetic.
 XX JP06054682-A.
 PN 01-MAR-1994.
 PD 06-AUG-1992; 92JP-00210435.
 PF 06-AUG-1992; 92JP-00210435.
 PR (ASAH) ASAHI CHEM IND CO LTD.
 XX WPI; 1994-111907/14.
 DR Recombinant prepn. of a polypeptide having super oxide dismutase activity
 XX - by culture of cell transformed with a vector contg. a hybrid human/pig
 PT SOD gene.
 PS Disclosure; Page 8; 15pp; Japanese.
 XX A hybrid gene of the human SOD gene and pig SOD gene was prepd. by
 CC replacing DNA encoding amino acids 107-113 of human SOD, with DNA
 CC encoding amino acids 106-112 of pig SOD. The gene was inserted into a
 CC vector of transformation into a cell, e.g. E. coli. The cell was cultured
 CC and the polypeptide collected
 XX
 SQ Sequence 15 BP; 4 A; 4 C; 6 G; 1 T; 0 U; 0 Other;
 Query Match 1.7%; Score 15; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 65 ATGGCGACGAGGCC 79
 DB 1 ATGGCGACGAGGCC 15

RESULT 163
 AD043600
 ID AD043600 standard; DNA; 15 BP.
 XX
 AC AD043600;
 XX
 DT 29-JUL-2004 (first entry)
 XX Wild type DNA fragment of SOD-1 where G12R mutation occurs.
 DE DNzyme; dominantly inherited disorder; achondroplasia;
 XX myotrophic lateral sclerosis; Marfan syndrome; hypercholesterolemia;
 KW osteogenesis imperfecta; SCCMS; ss; superoxide dismutase; SOD-1.
 XX Homo sapiens.
 OS WO2004038019-A2.
 XX 06-MAY-2004.
 PD 23-OCT-2003; 2003WO-GE004614.
 PF 23-OCT-2002; 2002GB-00024663.
 PR (ISIS-) ISIS INNOVATION LTD.
 XX Beeson D, Wood M, Abdelgany A;
 PI

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XX DR WPI; 2004-365523/34.
XX PT
XX PT New DNzyme that cleaves mutant polynucleotides, useful in treating a
XX PT dominantly inherited disorder associated with a mutant allele, such as
XX PT achondroplasia, amyotrophic lateral sclerosis, Marfan syndrome and
XX PT hypercholesterolemia.
XX PS Disclosure; Page 7; 24pp; English.
XX CC The specification describes a DNzyme which selectively cleaves a mutant
XX CC polynucleotide by cleaving at a site remote from the mutation site. The
XX CC DNzyme binds selectively to a mutant allele or its expressed product,
XX CC and comprises a central catalytic motif (Helix II) and two flanking
XX CC regions (helix I and III) where at least one of the flanking regions has
XX CC a polynucleotide sequence complementary to a region that includes the
XX CC mutation in the mutant allele or to that of the expressed product. Both
XX CC flanking regions are complementary to mutated regions of the mutant
XX CC allele or the expressed product. The complement of the mutation is 2 or 3
XX CC nucleotides upstream or downstream of the site of cleavage, preferably in
XX CC helix I. Helix I and III are of different lengths, where helix I is
XX CC shorter than helix III, and their length is 21-7 or 15-8 nucleotides.
XX CC Helix I preferably comprises 9 nucleotides and helix III 13 nucleotides.
XX CC At least one of the flanking regions comprises ribonucleic acid. The
XX CC DNzyme further comprises a stem-loop structure at either or both
XX CC termini. The DNzyme is useful in therapy, in particular for the
XX CC manufacture of a medicament for the treatment of a disorder associated
XX CC with a mutant allele in a patient, where the DNzyme comprises a central
XX CC catalytic motif and two flanking substrate-binding regions, and where at
XX CC least one flanking region binds at the site of mutation in the mutant
XX CC allele or its expressed product and the catalytic motif cleaves at a site
XX CC remote from the site of mutation. The disorder is a dominantly inherited
XX CC disorder, such as achondroplasia, amyotrophic lateral sclerosis with SOD1
XX CC mutation, Marfan syndrome, hypercholesterolemia, osteogenesis imperfecta
XX CC and SCMS. ADO43600-ADO43601 represent the wild type and mutant DNA
XX CC fragments, respectively, of the Cu/Zn superoxide disutase (SOD-1) gene
XX CC where a G12R mutation occurs, and causes amyotrophic lateral sclerosis.
XX CC These sequences are suitable for the design of DNzymes of the invention
XX CC (see ADO43602).
XX
XX SQ Sequence 15 BP; 2 A; 5 C; 7 G; 1 T; 0 U; 0 Other;
Query Match 1.7%; Score 15; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 95 GCGCAGCGCCCAAGT 109
DB 1 GCGCAGCGCCCAAGT 15
|||||
1 GCGCAGCGCCCAAGT 15

RESULT 164
ADO43606
ID ADO43606 standard; DNA; 15 BP.
XX AC
XX AC ADO43606;
XX DT
XX DT 29-JUL-2004 (first entry)
XX DE Wild type DNA fragment of SOD-1 where L26S mutation occurs.
XX
XX DNzyme; dominantly inherited disorder; achondroplasia;
XX KW amyotrophic lateral sclerosis; Marfan syndrome; hypercholesterolemia;
XX KW osteogenesis imperfecta; SCMS; ss; superoxide disutase; SOD-1.
XX
XX OS Homo sapiens.
XX PN WO2004038019-A2.
XX PD 06-MAY-2004.
XX PF 23-OCT-2003; 2003WO-GB004614.
XX

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PR 23-OCT-2002; 2002GB-00024663.
XX (ISIS-) ISIS INNOVATION LTD.
XX PA
XX PT Beeson D, Wood M, Abdelgany A;
XX PT WPI; 2004-365523/34.
XX DR
XX XX
XX PT New DNzyme that cleaves mutant polynucleotides, useful in treating a
XX PT dominantly inherited disorder associated with a mutant allele, such as
XX PT achondroplasia, amyotrophic lateral sclerosis, Marfan syndrome and
XX PT hypercholesterolemia.
XX PS Disclosure; Page 8; 24pp; English.
XX CC The specification describes a DNzyme which selectively cleaves a mutant
XX CC polynucleotide by cleaving at a site remote from the mutation site. The
XX CC DNzyme binds selectively to a mutant allele or its expressed product,
XX CC and comprises a central catalytic motif (Helix II) and two flanking
XX CC regions (helix I and III) where at least one of the flanking regions has
XX CC a polynucleotide sequence complementary to a region that includes the
XX CC mutation in the mutant allele or to that of the expressed product. Both
XX CC flanking regions are complementary to mutated regions of the mutant
XX CC allele or the expressed product. The complement of the mutation is 2 or 3
XX CC nucleotides upstream or downstream of the site of cleavage, preferably in
XX CC helix I. Helix I and III are of different lengths, where helix I is
XX CC shorter than helix III, and their length is 21-7 or 15-8 nucleotides.
XX CC Helix I preferably comprises 9 nucleotides and helix III 13 nucleotides.
XX CC At least one of the flanking regions comprises ribonucleic acid. The
XX CC DNzyme further comprises a stem-loop structure at either or both
XX CC termini. The DNzyme is useful in therapy, in particular for the
XX CC manufacture of a medicament for the treatment of a disorder associated
XX CC with a mutant allele in a patient, where the DNzyme comprises a central
XX CC catalytic motif and two flanking substrate-binding regions, and where at
XX CC least one flanking region binds at the site of mutation in the mutant
XX CC allele or its expressed product and the catalytic motif cleaves at a site
XX CC remote from the site of mutation. The disorder is a dominantly inherited
XX CC disorder, such as achondroplasia, amyotrophic lateral sclerosis with SOD1
XX CC mutation, Marfan syndrome, hypercholesterolemia, osteogenesis imperfecta
XX CC and SCMS. ADO43606-ADO43607 represent the wild type and mutant DNA
XX CC fragments, respectively, of the Cu/Zn superoxide disutase (SOD-1) gene
XX CC where a L26S mutation occurs, and causes amyotrophic lateral sclerosis.
XX CC These sequences are suitable for the design of DNzymes of the invention
XX CC (see ADO43608).
XX
XX SQ Sequence 15 BP; 5 A; 2 C; 5 G; 3 T; 0 U; 0 Other;
Query Match 1.7%; Score 15; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 437 GATGACTTGGCAAA 451
DB 1 GATGACTTGGCAAA 15
|||||
1 GATGACTTGGCAAA 15

RESULT 165
AAH21294
ID AAH21294 standard; DNA; 17 BP.
XX AC
XX AC AAH21294;
XX DT
XX DT 13-SEP-2001 (first entry)
XX XX
XX DE Human MDR-1 allele ex12/+44 counterstrain.
XX
XX MDR-1; human; multidrug resistance gene; genotyping; SNP; screening;
XX KW single nucleotide polymorphism; ds.
XX
XX OS Homo sapiens.
XX PN DE19963490-A1.
XX

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PD 05-JUL-2001.
 PF 28-DEC-1999; 99DE-01063490.
 PR 28-DEC-1999; 99DE-01063490.
 XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
 PA Kostrzewa M, Hoffmeyer S, Brinkmann U;
 PI WPI; 2001-426633/46.
 DR Genotyping multidrug resistance gene-1, useful for assessing doses of
 PT pharmaceuticals, by mass spectrometric analysis of primer extension
 PT products.
 PS Disclosure; Page 11; 22pp; German.
 XX This invention describes a novel method for genotyping the human MDR-1
 CC (multidrug resistance-1) gene by mass spectrometric detection of the
 CC mutational status at some or all of 16 point mutations (single nucleotide
 CC polymorphism; SNPs). Genotyping the MDR-1 gene may indicate altered
 CC expression or function of the encoded protein (which regulates the
 CC transport of compounds, including drugs, across cell membranes), and thus
 CC may indicate that changes in drug dosage are required. The method is
 CC rapid, valid and inexpensive, and provides a high throughput screen with
 CC only a few genotypic characteristics expected. Particularly mass analysis
 CC takes only 4 seconds, so a four-fold multiplex reaction will allow all
 CC positions to be determined in about 16 sec
 XX Sequence 17 BP; 3 A; 3 C; 5 G; 5 T; 0 U; 1 Other;
 SQ Query Match 1.7%; Score 15; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 1.3e+02;
 Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 319 GGGCAATGTGACTGCTG 335
 DB 1 GTGCAATGTRACTGCTG 17
 RESULT 166
 AAH21293/c
 ID AAH21293 standard; DNA; 17 BP.
 XX AAH21293;
 AC AAH21293;
 DT 13-SEP-2001 (first entry)
 DE Human MDR-1 allele ex12/+44.
 XX MDR-1; human; multidrug resistance gene; genotyping; SNP; screening;
 KW single nucleotide polymorphism; ds.
 XX Homo sapiens.
 OS DE19963490-A1.
 PN 05-JUL-2001.
 PD 28-DEC-1999; 99DE-01063490.
 PF 28-DEC-1999; 99DE-01063490.
 PR 28-DEC-1999; 99DE-01063490.
 XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
 PA Kostrzewa M, Hoffmeyer S, Brinkmann U;
 PI WPI; 2001-426633/46.
 DR Genotyping multidrug resistance gene-1, useful for assessing doses of
 PT pharmaceuticals, by mass spectrometric analysis of primer extension
 PT products.

XX Disclosure; Page 11; 22pp; German.
 XX This invention describes a novel method for genotyping the human MDR-1
 CC (multidrug resistance-1) gene by mass spectrometric detection of the
 CC mutational status at some or all of 16 point mutations (single nucleotide
 CC polymorphism; SNPs). Genotyping the MDR-1 gene may indicate altered
 CC expression or function of the encoded protein (which regulates the
 CC transport of compounds, including drugs, across cell membranes), and thus
 CC may indicate that changes in drug dosage are required. The method is
 CC rapid, valid and inexpensive, and provides a high throughput screen with
 CC only a few genotypic characteristics expected. Particularly mass analysis
 CC takes only 4 seconds, so a four-fold multiplex reaction will allow all
 CC positions to be determined in about 16 sec
 XX Sequence 17 BP; 5 A; 5 C; 3 G; 3 T; 0 U; 1 Other;
 SQ Query Match 1.7%; Score 15; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 1.3e+02;
 Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 319 GGGCAATGTGACTGCTG 335
 DB 17 GTGCAATGTRACTGCTG 1
 RESULT 167
 AAF91028/c
 ID AAF91028 standard; DNA; 17 BP.
 XX AAF91028;
 AC AAF91028;
 XX 04-MAY-2001 (first entry)
 DT Human multi drug resistance-1 gene related sequence SEQ ID NO: 115.
 DE Human; MDR-1; multi drug resistance-1; drug uptake; disease; cancer;
 KW inflammatory disease; neuronal disease; CNS disease;
 KW cardiovascular disease; PCR primer; ss.
 XX Homo sapiens.
 OS WO200109183-A2.
 PN 08-FEB-2001.
 PD 28-JUL-2000; 2000WO-BP007314.
 PF 30-JUL-1999; 99EP-00114938.
 PR 22-FEB-2000; 2000EP-00103361.
 XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
 PA Brinkmann U, Hoffmeyer S, Eichelbaum M, Roots I;
 PI WPI; 2001-159855/16.
 DR New polynucleotide encoding a molecular variant Multi Drug Resistance
 XX (MDR)-1 polypeptide is useful for diagnosing and treating diseases
 XX associated with abnormal MDR-1 expression or function, e.g. cancer.
 PS Claim 36; Page 101; 154pp; English.
 XX The present invention provides nucleotides encoding molecular variants of
 CC the human multi drug resistance-1 (MDR-1) protein. These can be used to
 CC identify compounds capable of treating multidrug resistance and
 CC sensitivity interfering resulting from polymorphisms in MDR-1, which can
 CC lead to difficulties in treating cancer, cardiovascular, neuronal,
 CC inflammatory and CNS diseases
 XX Sequence 17 BP; 5 A; 5 C; 3 G; 3 T; 0 U; 1 Other;
 SQ Query Match 1.7%; Score 15; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 1.3e+02;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 319 GGGCAATGTGACTGCTG 335
DB 17 GTGCAATGTRACTGCTG 1

RESULT 168
ID ABT38676
XX AC ABT38676;
XX DT 12-JUN-2003 (first entry)
XX DE Tumour suppression related human fukutin oligo SEQ ID No 4313.
XX KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;
XX KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
XX KW schizophrenia; protein chip; gene therapy; tumour suppression;
XX KW human fukutin; ds.
XX OS Homo sapiens.
XX PN WO2003025175-A2.
XX PD 27-MAR-2003.
XX PF 17-SEP-2002; 2002WO-IB004208.
XX PR 17-SEP-2001; 2001FR-00011978.
XX PA (MOLE-) MOLECULAR ENGINES LAB.
XX PI Telerman A, Amson R, Tuijnders M;
XX WPI; 2003-313353/30.
XX PT New isolated nucleic acid, useful for treating viral diseases associated
XX PT with tumors and cell degeneration, also related polypeptides, antibodies
XX PT and transfected cells.
XX PS Disclosure; Page 538; 720pp; French.
XX CC The invention relates to a novel isolated 17 mer nucleic acid sequence,
XX CC given in the specification, a sequence containing at least 15 consecutive
XX CC nucleotides from the 17 mer sequence, a sequence with, after optimal
XX CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that
XX CC hybridizes to them under highly stringent conditions, or the complement
XX CC of any of them, or the corresponding RNA. The novel isolated nucleic
XX CC acids of the invention are useful as probes and primers for detecting,
XX CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one
XX CC component of a gene chip, in vitro as (anti)sense reagents, and for
XX CC production of recombinant polypeptides. Any of the nucleic acids,
XX CC polypeptides, vectors containing the nucleic acids, cells containing the
XX CC vector or antibodies directed against the polypeptides are useful for
XX CC preparation of pharmaceuticals for prevention and/or treatment of viral
XX CC diseases that are characterised by development of tumours or cell
XX CC degeneration, specifically cancer but also Alzheimer's disease and
XX CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in
XX CC patient samples is useful for diagnosis and/or prognosis of these
XX CC diseases. The polypeptides can also be used to generate antibodies, and
XX CC both the polypeptide and antibodies are useful as components of protein
XX CC chips. The nucleic acid sequences of the invention can be used in gene
XX CC therapy. This polynucleotide sequence represents a tumour suppression
XX CC related human fukutin oligonucleotide of the invention
XX CC Sequence 17 BP; 6 A; 3 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 1.7%; Score 15; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 811 TCAAGCCTGTGAATA 825
DB 3 TCAAGCCTGTGAATA 17

RESULT 169
ID ACF62526/C
XX AC ACF62526;
XX DT 08-OCT-2003 (first entry)
XX DE Cancer based on CYP3A5 related oligonucleotide SEQ ID NO:355.
XX KW Cancer; CYP3A5; irinotecan; pharmaceutical; malignant glioma;
XX KW cytochrome p450; subfamily IIIA; nifedipine oxidase; polypeptide 5;
XX KW cytosolic; PCR primer; ss.
XX OS Synthetic.
XX PN WO2003013534-A2.
XX PD 20-FEB-2003.
XX PF 23-JUL-2002; 2002WO-EP008219.
XX PR 23-JUL-2001; 2001EP-00117608.
XX PR 24-MAY-2002; 2002EP-00011710.
XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX PI Heinrich G, Kerb R;
XX WPI; 2003-268144/26.
XX PT New use of irinotecan for preparation of compositions for treating cancer
XX PT in subject having genome with variant allele comprising cytochrome p450,
XX PT subfamily IIIA, polypeptide 5 polynucleotide, termed CYP3A5.
XX PS Disclosure; Page 42; 86pp; English.

XX CC The present invention describes the use of irinotecan (I) or its
XX CC derivative for the preparation of a pharmaceutical composition for
XX CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic
XX CC cancer, or malignant glioma in a subject having a genome with a variant
XX CC allele which comprises a cytochrome p450, subfamily IIIA (nifedipine
XX CC oxidase), polypeptide 5 (CYP3A5) polynucleotide (II). (I) and (II) have
XX CC cytostatic activity. The therapeutic applications of (I) is improved,
XX CC since it is possible to individually treat a subject with an appropriate
XX CC dosage and/or an appropriate derivative of (I). Therefore, undesirable,
XX CC harmful or toxic effects are efficiently avoided. Unnecessary and
XX CC potentially harmful treatment of those subjects who do not respond to the
XX CC treatment with substances (nonresponders), as well as the development of
XX CC drug resistances due to suboptimal drug dosing can be avoided. ACF62200
XX CC to ACF62751 and ABM34912 to ABM35013 represent sequences used in the
XX CC exemplification of the present invention
XX CC Sequence 17 BP; 5 A; 5 C; 3 G; 3 T; 0 U; 1 Other;

Query Match 1.7%; Score 15; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.3e+02;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 319 GGGCAATGTGACTGCTG 335
DB 17 GTGCAATGTRACTGCTG 1

RESULT 170
ID ADB21197/c
ID ADB21197 standard; DNA; 17 BP.

CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to
 CC AAA23422 represent their corresponding target sequences. The ribozymes of
 CC the invention are used for modulating the synthesis, expression and/or
 CC stability of an mRNA encoding angiogenic factor, especially ARNT.
 CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are
 CC especially used to treat cancer, diabetic retinopathy, age related
 CC macular degeneration (ARMD), inflammation, and arthritis, as well as
 CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,
 CC angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber
 CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,
 CC and other syndromes and diseases related to the levels of ARNT, Tie-2,
 CC integrin subunit alpha-6, or integrin subunit beta-3
 XX
 SQ Sequence 17 BP; 6 A; 4 C; 1 G; 0 T; 6 U; 0 Other;
 Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 676 AGAACTGATTATGA 691
 Db 16 AGAACTGATTATGA 1
 |||||

RESULT 175
 AAF05438
 ID AAF05438 standard; DNA; 17 BP.
 XX
 AC AAF05438;
 XX
 DT 16-FEB-2001 (first entry)
 XX
 DE Hammerhead ribozyme substrate #2657.
 XX
 KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;
 KW interferon alpha; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200061729-A2.
 XX
 PD 19-OCT-2000.
 XX
 PF 11-APR-2000; 2000WO-US009721.
 XX
 PR 12-APR-1999; 99US-0129390P.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 XX
 PI Blatt L, Zwick M, Pavco P, Mcswiggen J;
 XX
 DR WPI; 2000-647423/62.
 XX
 PT Enzymatic and antisense nucleic acid inhibition of repressor genes,
 PT useful for producing e.g. granulocyte colony stimulating factor protein,
 PT interferon alpha and erythropoietin.
 XX
 OS Homo sapiens.
 XX
 PN WO200061729-A2.
 XX
 PD 19-OCT-2000.
 XX
 PF 11-APR-2000; 2000WO-US009721.
 XX
 PR 12-APR-1999; 99US-0129390P.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 XX
 PI Blatt L, Zwick M, Pavco P, Mcswiggen J;
 XX
 DR WPI; 2000-647423/62.
 XX
 PT Enzymatic and antisense nucleic acid inhibition of repressor genes,
 PT useful for producing e.g. granulocyte colony stimulating factor protein,
 PT interferon alpha and erythropoietin.
 XX
 PS Claim 18; Page 116; 164pp; English.
 XX
 CC The present invention relates to enzymatic and antisense nucleic acid
 CC molecules that act as inhibitors of the expression of repressor genes
 CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
 CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).
 CC Inhibition of the repressors removes prevents inhibition (and
 CC consequently increases expression of) genes involved in the production of
 CC erythropoietin, granulocyte colony stimulating factor protein and
 CC interferon alpha
 XX
 SQ Sequence 17 BP; 7 A; 3 C; 4 G; 3 T; 0 U; 0 Other;
 Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 135 AGAAAGTAAATGACC 150
 Db 1 AGGAACTAAATGACC 16
 |||||

RESULT 176
 AAF03384/c
 ID AAF03384 standard; DNA; 17 BP.
 XX
 AC AAF03384;
 XX
 DT 16-FEB-2001 (first entry)
 XX
 DE Hammerhead ribozyme substrate #1679.
 XX
 KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;
 KW interferon alpha; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200061729-A2.
 XX
 PD 19-OCT-2000.
 XX
 PF 11-APR-2000; 2000WO-US009721.
 XX
 PR 12-APR-1999; 99US-0129390P.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 XX
 PI Blatt L, Zwick M, Pavco P, Mcswiggen J;
 XX
 DR WPI; 2000-647423/62.
 XX
 PT Enzymatic and antisense nucleic acid inhibition of repressor genes,
 PT useful for producing e.g. granulocyte colony stimulating factor protein,
 PT interferon alpha and erythropoietin.
 XX
 OS Homo sapiens.
 XX
 PS Claim 37; Page 94; 164pp; English.
 XX
 CC The present invention relates to enzymatic and antisense nucleic acid
 CC molecules that act as inhibitors of the expression of repressor genes
 CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
 CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).
 CC Inhibition of the repressors removes prevents inhibition (and
 CC consequently increases expression of) genes involved in the production of
 CC erythropoietin, granulocyte colony stimulating factor protein and
 CC interferon alpha
 XX
 SQ Sequence 17 BP; 2 A; 2 C; 2 G; 11 T; 0 U; 0 Other;
 Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 458 AATGAGAAAGTACAA 473
 Db 16 AATGAGAAATACAA 1
 |||||

RESULT 177
 AAF03381/c
 ID AAF03381 standard; DNA; 17 BP.
 XX
 AC AAF03381;
 XX
 DT 16-FEB-2001 (first entry)
 XX
 DE Hammerhead ribozyme substrate #1676.
 XX
 KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;
 KW interferon alpha; ss.

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XX OS Homo sapiens.
XX PN WO200061729-A2.
XX PD 19-OCT-2000.
XX PF 11-APR-2000; 2000WO-US009721.
XX PR 12-APR-1999; 99US-0129390P.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PI Blatt L, Zwick M, Pavco P, Mcswiggen J;
XX WPI; 2000-647423/62.
XX DR
XX PT Enzymatic and antisense nucleic acid inhibition of repressor genes,
XX PT useful for producing e.g. granulocyte colony stimulating factor protein,
XX PT interferon alpha and erythropoietin.
XX PS Claim 37; Page 94; 164pp; English.
XX CC The present invention relates to enzymatic and antisense nucleic acid
XX CC molecules that act as inhibitors of the expression of repressor genes
XX CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
XX CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).
XX CC Inhibition of the repressors removes prevents inhibition (and
XX CC consequently increases expression of) genes involved in the production of
XX CC erythropoietin, granulocyte colony stimulating factor protein and
XX CC interferon alpha
XX CC
XX SQ Sequence 17 BP; 1 A; 4 C; 1 G; 11 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 461 GAAGAAAGTACAAAGA 476
DB 17 GAAGAAATACAAAGA 2
|||||
|||||

RESULT 178
ABK02234/C
ID ABK02234 standard; RNA; 17 BP.
XX AC ABK02234;
XX DT 12-MAR-2002 (first entry)
XX DE Human NOGO DNzyme #146.
XX KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
XX KW cerebroprotective; nootropic; neuroprotective; antiparkinsonian;
XX KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;
XX KW DNzyme; inozyme; G-cleaver; amberzyme; zincyme; lymphoma; leukaemia;
XX KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
XX KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
XX KW MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;
XX KW inflammatory arthropathy; central nervous system injury;
XX KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
XX KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;
XX KW Parkinson's disease; ataxia; Huntington's disease;
XX KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
XX OS Homo sapiens.
XX OS Synthetic.
XX PN WO200159103-A2.
XX PD 16-AUG-2001.
XX

09-FEB-2001; 2001WO-US004273.
11-FEB-2000; 2000US-0181797P.
28-FEB-2000; 2000US-0185516P.
06-MAR-2000; 2000US-0187128P.
XX (RIBO-) RIBOZYME PHARM INC.
XX PA (BLAT/) BLATT L.
XX PA (MCSW/) MCSWIGGEN J.
XX PA (CHOW/) CHOWRIRA B M.
XX PI Blatt L, Mcswiggen J, Chowrira BM;
XX WPI; 2001-607195/69.
XX DR
XX PT Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense
XX PT constructs, which down regulate expression of a CD20 gene or neurite
XX PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and
XX PT central nervous system injury.
XX PS Claim 88; Page 115; 200pp; English.
XX CC The invention relates to a nucleic acid molecule which down regulates
XX CC expression of a CD20 gene and a nucleic acid molecule which down
XX CC regulates expression of a neurite growth inhibitor gene (NOGO). The
XX CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a
XX CC DNzyme) an inozyme (an endolytic nucleic acid cleaving a an RNA molecule
XX CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NNN motif) pr
XX CC an amberzyme (cleaving RNA with an NGN triplet), a zincyme (cleaving RNA
XX CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA
XX CC of CD20 in the presence of a divalent cation that is preferably Mg2+.
XX CC Furthermore, it may be contacted with a cell to reduce CD20 activity of
XX CC the cell and treat a patient having a condition associated with the level
XX CC of CD20. The treatment may further comprise the use of one or more
XX CC therapies. In particular, the CD20 targeting nucleic acid may be used to
XX CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-
XX CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic
XX CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell
XX CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,
XX CC immune thrombocytopenia, and inflammatory arthropathy. The NOGO-
XX CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the
XX CC presence of a divalent cation that is preferably Mg2+. Furthermore, the
XX CC nucleic acid may be contacted with a cell to reduce NOGO activity of the
XX CC cell and treat a patient having a condition associated with the level of
XX CC NOGO. The treatment may further comprise the use of one or more
XX CC therapies. In particular, the NOGO-targeting nucleic acid may be used to
XX CC treat central nervous system (CNS) injury and cerebrovascular accident
XX CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),
XX CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
XX CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob
XX CC disease, muscular dystrophy, and/or other neurodegenerative disease
XX CC states which respond to the modulation of NOGO expression. The present
XX CC sequence is a DNzyme molecule of the invention
XX SQ Sequence 17 BP; 5 A; 1 C; 2 G; 0 T; 9 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 857 TTAAGAAGATCCAAAT 872
DB 17 TTAAGAAGATCCAAAT 2
|||||
|||||

RESULT 179
ABK02326
ID ABK02326 standard; RNA; 17 BP.
XX AC ABK02326;
XX DT 12-MAR-2002 (first entry)
XX DD

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DE XX Human NOGO DNzyme #238.

KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; neuroprotective; neurotropic; neuroprotective; antiparkinsonian; musclar; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme; DNzyme; inozyme; G-cleaver; ambersyme; zinzyme; lymphoma; leukaemia; B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia; human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS; Parkinson's disease; ataxia; Huntington's disease; Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.

XX Homo sapiens.

OS Synthetic.

OS WO200159103-A2.

PN 16-AUG-2001.

XX 09-FEB-2001; 2001WO-US004273.

XX 11-FEB-2000; 2000US-0181797P.

PR 28-FEB-2000; 2000US-0185516P.

PR 06-MAR-2000; 2000US-0187128P.

XX (RIBO-) RIBOZYME PHARM INC.

PA (BLAT/) BLATT L.

PA (MCSW/) MCSWIGGEN J.

PA (CHOW/) CHOWRIIRA B M.

XX Blatt L, Mcswiggen J, Chowrira BM;

XX WPI; 2001-607195/69.

XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and central nervous system injury.

XX Claim 88; Page 116; 200pp; English.

XX The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down regulates expression of a neurite growth inhibitor gene (NOGO). The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a DNzyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or an ambersyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA of CD20 in the presence of a divalent cation that is preferably Mg²⁺. Furthermore, it may be contacted with a cell to reduce CD20 activity of the cell and treat a patient having a condition associated with the level of CD20. The treatment may further comprise the use of one or more therapies. In particular, the CD20 targeting nucleic acid may be used to treat lymphoma, leukemia, B-cell lymphoma, low-grade or follicular non-Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-targeting nucleic acid is used to cleave RNA of the NOGO gene in the presence of a divalent cation that is preferably Mg²⁺. Furthermore, the nucleic acid may be contacted with a cell to reduce NOGO activity of the cell and treat a patient having a condition associated with the level of NOGO. The treatment may further comprise the use of one or more therapies. In particular, the NOGO-targeting nucleic acid may be used to treat central nervous system (CNS) injury and cerebrovascular accident (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS), chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob disease, muscular dystrophy, and/or other neurodegenerative disease

CC states which respond to the modulation of NOGO expression. The present sequence is a DNzyme molecule of the invention

CC XX Sequence 17 BP; 10 A; 2 C; 1 G; 0 T; 4 U; 0 Other;

SQ Query Match 1.6%; Score 14.4; DB 1; Length 17; Best Local Similarity 68.8%; Pred. No. 1.5e+02; Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 822 AATAAAACCCGTGTAT 837

Db 1 AAUAAAAAACCCUGAU 16

RESULT 180

ABT37806

ID ABT37806 standard; DNA; 17 BP.

XX AC ABT37806;

XX DT 12-JUN-2003 (first entry)

XX Tumour suppression related human fukutin oligo SEQ ID No 3443.

XX Cytostatic; virucide; neuroprotective; neurotropic; neuroleptic; Gene chip; Antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.

XX Homo sapiens.

XX WO2003025175-A2.

XX 27-MAR-2003.

XX 17-SEP-2002; 2002WO-IB004208.

XX 17-SEP-2001; 2001FR-00011978.

PA (MOLE-) MOLECULAR ENGINES LAB.

XX Telerman A, Amson R, Tuijnder M;

XX WPI; 2003-313353/30.

XX New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.

XX Disclosure; Page 436; 720pp; French.

XX The invention relates to a novel isolated 17 mer nucleic acid sequence, given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti)sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, polypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these diseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene therapy. This polynucleotide sequence represents a tumour suppression related human fukutin oligonucleotide of the invention

```
XX SQ Sequence 17 BP; 6 A; 1 C; 3 G; 7 T; 0 U; 0 Other;
Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 620 ATCTTAAAGTGTAAT 635
|||||
Db 2 ATCTTAAAGTGTTAT 17

RESULT 181
ABT39717
ID ABT39717 standard; DNA; 17 BP.
XX
AC ABT39717;
XX
AC ABT39717;
XX
DT 12-JUN-2003 (first entry)
XX
DE Tumour suppression related human fukutin oligo SEQ ID No 5354.
XX
KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;
KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
KW schizophrenia; protein chip; gene therapy; tumour suppression;
KW human fukutin; ds.
XX
OS Homo sapiens.
XX
PN WO2003025175-A2.
XX
PD 27-MAR-2003.
XX
PF 17-SEP-2002; 2002WO-IB004208.
XX
PR 17-SEP-2001; 2001FR-00011978.
XX
PA (MOLE-) MOLECULAR ENGINES LAB.
XX
PI Telerman A, Anson R, Tuijnder M;
XX
XX WPI; 2003-313353/30.
XX
DR New isolated nucleic acid, useful for treating viral diseases associated
XX PT with tumors and cell degeneration, also related polypeptides, antibodies
XX PT and transfected cells.
XX
PS Disclosure; Page 659; 720pp; French.
XX
CC The invention relates to a novel isolated 17 mer nucleic acid sequence,
XX given in the specification, a sequence containing at least 15 consecutive
XX nucleotides from the 17 mer sequence, a sequence with, after optimal
XX alignment, at least 80 % identity to the 17 mer sequence, a sequence that
XX hybridizes to them under highly stringent conditions, or the complement
XX of any of them, or the corresponding RNA. The novel isolated nucleic
XX acids of the invention are useful as probes and primers for detecting,
XX identifying, quantifying and/or amplifying a nucleic acid, e.g. as one
XX component of a gene chip, in vitro as (anti)sense reagents, and for
XX production of recombinant polypeptides. Any of the nucleic acids,
XX polypeptides, vectors containing the nucleic acids, cells containing the
XX vector or antibodies directed against the polypeptides are useful for
XX preparation of pharmaceuticals for prevention and/or treatment of viral
XX diseases that are characterised by development of tumours or cell
XX degeneration, specifically cancer but also Alzheimer's disease and
XX schizophrenia. Analysis of the expression of the 17 mer nucleic acids in
XX patient samples is useful for diagnosis and/or prognosis of these
XX diseases. The polypeptides can also be used to generate antibodies, and
XX both the polypeptide and antibodies are useful as components of protein
XX chips. The nucleic acid sequences of the invention can be used in gene
XX therapy. This polynucleotide sequence represents a tumour suppression
XX related human fukutin oligonucleotide of the invention
XX
XX Sequence 17 BP; 4 A; 5 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
|||||
Db 2 GCAATGTAACTGCTGA 17

RESULT 182
ACF62525
ID ACF62525 standard; DNA; 17 BP.
XX
AC ACF62525;
XX
DT 08-OCT-2003 (first entry)
XX
DE Cancer based on CYP3A5 related oligonucleotide SEQ ID NO:354.
XX
KW Cancer; CYP3A5; irinotecan; pharmaceutical; malignant glioma;
KW cytochrome p450; subfamily IIIA; nifedipine oxidase; polypeptide 5;
KW cytostatic; PCR primer; ss.
XX
OS Synthetic.
XX
PN WO2003013534-A2.
XX
PD 20-FEB-2003.
XX
PF 23-JUL-2002; 2002WO-EP008219.
XX
PR 23-JUL-2001; 2001EP-00117608.
XX
PR 24-MAY-2002; 2002EP-00011710.
XX
XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX
PI Heinrich G, Kerb R;
XX
XX WPI; 2003-268144/26.
XX
DR New use of irinotecan for preparation of compositions for treating cancer
XX PT in subject having genome with variant allele comprising cytochrome p450,
XX PT subfamily IIIA, polypeptide 5 polynucleotide, termed CYP3A5.
XX
PS Disclosure; Page 42; 86pp; English.
XX
CC The present invention describes the use of irinotecan (I) or its
XX derivative for the preparation of a pharmaceutical composition for
XX treating colorectal, cervical, gastric, lung, ovarian or pancreatic
XX cancer, or malignant glioma in a subject having a genome with a variant
XX allele which comprises a cytochrome p450, subfamily IIIA (nifedipine
XX oxidase), polypeptide 5 (CYP3A5) polynucleotide (II). (I) and (II) have
XX cytostatic activity. The therapeutic applications of (I) is improved,
XX since it is possible to individually treat a subject with an appropriate
XX dosage and/or an appropriate derivative of (I). Therefore, undesirable,
XX harmful or toxic effects are efficiently avoided. Unnecessary and
XX potentially harmful treatment of those subjects who do not respond to the
XX treatment with substances (nonresponders), as well as the development of
XX drug resistances due to suboptimal drug dosing can be avoided. ACF62200
XX to ACF62751 and ABM34912 to ABM35013 represent sequences used in the
XX exemplification of the present invention
XX
XX Sequence 17 BP; 5 A; 3 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
|||||
Db 2 GCAATGTAACTGCTGA 17
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RESULT 183

ACF62524/c
ID ACF62524 standard; DNA; 17 BP.

XX AC ACF62524;
XX DT 08-OCT-2003 (first entry)
XX DE Cancer based on CYP3A5 related oligonucleotide SEQ ID NO:353.
XX KW Cancer; CYP3A5; irinotecan; pharmaceutical; malignant glioma;
XX KW cytochrome p450; subfamily IIIA; nifedipine oxidase; polypeptide 5;
XX KW cytotstatic; PCR primer; ss.
XX OS Synthetic.
XX PN WO2003013534-A2.
XX PD 20-FEB-2003.
XX PF 23-JUL-2002; 2002WO-EP008219.
XX PR 23-JUL-2001; 2001EP-00117608.
XX PR 24-MAY-2002; 2002EP-00011710.
XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX PI Heinrich G, Kerb R;
XX XX WPI; 2003-268144/26.

XX New use of irinotecan for preparation of compositions for treating cancer
PT in subject having genome with variant allele comprising cytochrome p450,
PT subfamily IIIA, polypeptide 5 polynucleotide, termed CYP3A5.
XX
XX Disclosure; Page 42; 86pp; English.
XX The present invention describes the use of irinotecan (I) or its
CC derivative for the preparation of a pharmaceutical composition for
CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic
CC cancer, or malignant glioma in a subject having a genome with a variant
CC allele which comprises a cytochrome p450, subfamily IIIA (nifedipine
CC oxidase), polypeptide 5 (CYP3A5) polynucleotide (II). (I) and (II) have
CC cytostatic activity. The therapeutic applications of (I) is improved,
CC since it is possible to individually treat a subject with an appropriate
CC dosage and/or an appropriate derivative of (I). Therefore, undesirable,
CC harmful or toxic effects are efficiently avoided. Unnecessary and
CC potentially harmful treatment of those subjects who do not respond to the
CC treatment with substances (nonresponders), as well as the development of
CC drug resistances due to suboptimal drug dosing can be avoided. ACF62200
CC to ACF62751 and ABM34912 to ABM35013 represent sequences used in the
CC exemplification of the present invention

XX Sequence 17 BP; 5 A; 4 C; 3 G; 5 T; 0 U; 0 Other;
SQ Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 321 GCAATGTGACTGCTGA 336
DB 16 GCAATGTGACTGCTGA 1

XX RESULT 184
XX ADB21195/c
XX ID ADB21195 standard; DNA; 17 BP.
XX AC ADB21195;
XX DT 20-NOV-2003 (first entry)

OY 321 GCAATGTGACTGCTGA 336
DB 16 GCAATGTGACTGCTGA 1

RESULT 184

ADB21195/c
ID ADB21195 standard; DNA; 17 BP.

XX AC ADB21195;
XX DT 20-NOV-2003 (first entry)

XX

DE MRP1 based cancer related nucleic acid SEQ ID NO:353.

XX irinotecan; colorectal cancer; cervical cancer; gastric cancer;
KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
KW variant allele; multidrug resistance protein 1; MRP1; cytostatic; gene;
XX ds.
XX OS Unidentified.

XX PN WO2003013533-A2.
XX PD 20-FEB-2003.
XX PF 23-JUL-2002; 2002WO-EP008200.
XX PR 23-JUL-2001; 2001EP-00117608.
XX PR 24-MAY-2002; 2002EP-00011710.

XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.

XX Heinrich G, Kerb R;
XX WPI; 2003-354397/33.

XX Use of irinotecan or its derivative for preparation of a pharmaceutical
PT composition for treating cancer in a subject having a genome with a
PT variant allele comprising a multidrug resistance protein 1
PT polynucleotide.
XX Disclosure; Page 51; 100pp; English.
XX The present invention describes a method for the use of irinotecan (I) or
CC its derivative for the preparation of a pharmaceutical composition for
CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic
CC cancer, or malignant glioma in a subject having a genome with a variant
CC allele which comprises a multidrug resistance protein 1 (MRP1)
CC polynucleotide (II). (I) has cytostatic activity. (I) or its derivative
CC can be used for the preparation of a pharmaceutical composition for
CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic
CC cancer, or malignant glioma in a subject, where the subject is a human
CC (preferably African or Asian) or a mouse. The present sequence represents
CC a sequence which is used in the exemplification of the present invention.

XX Sequence 17 BP; 5 A; 4 C; 3 G; 5 T; 0 U; 0 Other;
SQ Query Match 1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 321 GCAATGTGACTGCTGA 336
DB 16 GCAATGTGACTGCTGA 1

RESULT 185

ADB21196
ID ADB21196 standard; DNA; 17 BP.

XX AC ADB21196;
XX DT 20-NOV-2003 (first entry)

XX MRP1 based cancer related nucleic acid SEQ ID NO:354.

XX irinotecan; colorectal cancer; cervical cancer; gastric cancer;
KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
KW variant allele; multidrug resistance protein 1; MRP1; cytostatic; gene;
XX ds.
XX OS Unidentified.
XX PN WO2003013533-A2.

PD 20-FEB-2003.
 XX
 PF 23-JUL-2002; 2002WO-EP008200.
 XX
 PR 23-JUL-2001; 2001EP-00117608.
 PR 24-MAY-2002; 2002EP-00011710.
 XX
 PA (EPID-) EPIDAUS BIOTECHNOLOGIE AG.
 XX
 PI Heinrich G, Kerb R;
 XX
 DR WPI; 2003-289896/28.
 XX
 DR Use of irinotecan or its derivative for preparation of a pharmaceutical
 PT composition for treating cancer in a subject having a genome with a
 PT variant allele comprising a multidrug resistance protein 1
 PT polynucleotide.
 XX
 PS Disclosure; Page 51; 100pp; English.
 XX
 CC The present invention describes a method for the use of irinotecan (I) or
 CC its derivative for the preparation of a pharmaceutical composition for
 CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic
 CC cancer, or malignant glioma in a subject having a genome with a variant
 CC allele which comprises a multidrug resistance protein 1 (MRP1)
 CC polynucleotide (II). (I) has cytostatic activity. (I) or its derivative
 CC can be used for the preparation of a pharmaceutical composition for
 CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic
 CC cancer, or malignant glioma in a subject, where the subject is a human
 CC (preferably African or Asian) or a mouse. The present sequence represents
 CC a sequence which is used in the exemplification of the present invention.
 XX
 SQ Sequence 17 BP; 5 A; 3 C; 4 G; 5 T; 0 U; 0 Other;
 Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 321 GCAATGTGACTGCTGA 336
 DB |||||||
 2 GCAATGTGACTGCTGA 17
 RESULT 186
 ADB88285
 ID ADB88285 standard; DNA; 17 BP.
 AC ADB88285;
 XX
 XX 04-DEC-2003 (first entry)
 DT Human UGT1A1 variant allele sequence fragment SEQ ID NO:326.
 DE
 DE ss; irinotecan; cancer; UGT1A1; cytostatic; topoisomerase I inhibitor;
 KW colorectal cancer; cervical cancer; gastric cancer; lung cancer;
 KW ovarian cancer; pancreatic cancer; malignant glioma;
 KW uridine diphosphate glycosyltransferase1 member A1.
 XX
 OS Homo sapiens.
 XX
 XX WO2003013536-A2.
 PN
 XX
 XX 20-FEB-2003.
 PD
 XX 23-JUL-2002; 2002WO-EP008217.
 PF
 XX 23-JUL-2001; 2001EP-00117608.
 PR
 PR 24-MAY-2002; 2002EP-00011710.
 XX
 XX (EPID-) EPIDAUS BIOTECHNOLOGIE AG.
 PA
 XX Heinrich G, Kerb R;
 XX

DR WPI; 2003-289896/28.
 XX
 PF Use of irinotecan to treat cancer patient by determining if patient has
 PT variant alleles of UGT1A1 gene, administering increased/decreased amounts
 PT of irinotecan based on increased/decreased levels of UGT1A1 gene product.
 XX
 PS Disclosure; Page 55; 107pp; English.
 XX
 CC The invention relates to the novel use of irinotecan to treat a patient
 CC suffering from cancer. This involves determining if the patient has one
 CC or more variant alleles of the UGT1A1 gene, and if the patient has one or
 CC more of such variant alleles, irinotecan is administered in an increased
 CC or decreased amount in comparison to the amount that is administered
 CC without regard to the patient's alleles in the UGT1A1 gene. The invention
 CC has cytostatic activity. A composition of the invention acts as a
 CC topoisomerase I inhibitor. The method is useful for treating a patient,
 CC an animal e.g. mouse or a human, preferably African or Asian, suffering
 CC from cancer such as colorectal, cervical, gastric cancer, lung, ovarian,
 CC pancreatic cancer or malignant glioma. The present sequence is used in
 CC the exemplification of the invention.
 XX
 SQ Sequence 17 BP; 5 A; 3 C; 4 G; 5 T; 0 U; 0 Other;
 Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 321 GCAATGTGACTGCTGA 336
 DB |||||||
 2 GCAATGTGACTGCTGA 17
 RESULT 187
 ADB88284/C
 ID ADB88284 standard; DNA; 17 BP.
 XX
 AC ADB88284;
 XX
 XX 04-DEC-2003 (first entry)
 DT Human UGT1A1 variant allele sequence fragment SEQ ID NO:325.
 DE
 DE ss; irinotecan; cancer; UGT1A1; cytostatic; topoisomerase I inhibitor;
 KW colorectal cancer; cervical cancer; gastric cancer; lung cancer;
 KW ovarian cancer; pancreatic cancer; malignant glioma;
 KW uridine diphosphate glycosyltransferase1 member A1.
 XX
 OS Homo sapiens.
 XX
 XX WO2003013536-A2.
 PN
 XX
 XX 20-FEB-2003.
 PD
 XX 23-JUL-2002; 2002WO-EP008217.
 PF
 XX 23-JUL-2001; 2001EP-00117608.
 PR
 PR 24-MAY-2002; 2002EP-00011710.
 XX
 XX (EPID-) EPIDAUS BIOTECHNOLOGIE AG.
 PA
 XX Heinrich G, Kerb R;
 XX
 DR WPI; 2003-289896/28.
 XX
 DR Use of irinotecan to treat cancer patient by determining if patient has
 PT variant alleles of UGT1A1 gene, administering increased/decreased amounts
 PT of irinotecan based on increased/decreased levels of UGT1A1 gene product.
 XX
 PS Disclosure; Page 55; 107pp; English.
 XX
 CC The invention relates to the novel use of irinotecan to treat a patient
 CC suffering from cancer. This involves determining if the patient has one
 CC or more variant alleles of the UGT1A1 gene, and if the patient has one or

CC more of such variant alleles, irinotecan is administered in an increased
 CC or decreased amount in comparison to the amount that is administered
 CC without regard to the patient's alleles in the UGT1A1 gene. The invention
 CC has cytostatic activity. A composition of the invention acts as a
 CC topoisomerase I inhibitor. The method is useful for treating a patient,
 CC an animal e.g. mouse or a human, preferably African or Asian, suffering
 CC from cancer such as colorectal, cervical, gastric cancer, lung, ovarian,
 CC pancreatic cancer or malignant glioma. The present sequence is used in
 CC the exemplification of the invention.
 XX
 SQ Sequence 17 BP; 5 A; 4 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
 DB 16 GCAATGTGACTGCTGA 1

RESULT 188
 ADB97267/c
 ID ADB97267 standard; DNA; 17 BP.
 XX ADB97267;
 AC
 XX
 DT 04-DEC-2003 (first entry)
 XX
 DE Human MDR1 variant allele sequence fragment SEQ ID NO:353.

XX irinotecan; colorectal cancer; cervical cancer; gastric cancer;
 KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
 KW multidrug resistance 1; MDR1; cytostatic; human; ds; Cyp3A5; MRP1; MDR1;
 KW TOP1.
 XX
 OS Homo sapiens.

XX
 PN WO2003013537-A2.
 XX
 XX 20-FEB-2003.

XX 23-JUL-2002; 2002WO-EP008218.
 PF
 XX 23-JUL-2001; 2001EP-00117608.
 PR
 PR 24-MAY-2002; 2002EP-00011710.

XX
 XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
 PA
 XX Heinrich G, Kerb R;
 PI WPI; 2003-268145/26.

XX
 XX New use of irinotecan for preparation of pharmaceutical compositions for
 PT treating cancer in subject having genome with variant allele comprising
 PT multidrug resistance 1 polynucleotide.
 XX
 PS Claim 1; Page 79; 130pp; English.

XX The invention relates to the novel use of irinotecan or its derivative
 CC for the preparation of pharmaceutical compositions for treating
 CC colorectal, cervical, gastric, lung, ovarian or pancreatic cancer, or
 CC malignant glioma in a subject having a genome with a variant allele which
 CC comprises a multidrug resistance 1 (MDR1) polynucleotide. A composition
 CC of the invention has cytostatic activity. The invention is useful for the
 CC preparation of pharmaceutical compositions for treating colorectal,
 CC cervical, gastric, lung, ovarian or pancreatic cancer, or malignant
 CC glioma in a subject (preferably human, more preferably African or Asian)
 CC or a mouse. The present sequence is used in the exemplification of the
 CC invention.

XX
 XX Sequence 17 BP; 5 A; 4 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
 DB 16 GCAATGTGACTGCTGA 1

RESULT 190
 ADB92459
 ID ADB92459 standard; DNA; 17 BP.

Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
 DB 16 GCAATGTGACTGCTGA 1

RESULT 189
 ADB97268
 ID ADB97268 standard; DNA; 17 BP.
 XX
 AC ADB97268;
 XX
 DT 04-DEC-2003 (first entry)
 XX
 DE Human MDR1 variant allele sequence fragment SEQ ID NO:354.

XX irinotecan; colorectal cancer; cervical cancer; gastric cancer;
 KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
 KW multidrug resistance 1; MDR1; cytostatic; human; ds; Cyp3A5; MRP1;
 KW TOP1.
 XX
 OS Homo sapiens.

XX
 PN WO2003013537-A2.
 XX
 XX 20-FEB-2003.

XX 23-JUL-2002; 2002WO-EP008218.
 PF
 XX 23-JUL-2001; 2001EP-00117608.
 PR
 PR 24-MAY-2002; 2002EP-00011710.

XX
 XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
 PA
 XX Heinrich G, Kerb R;
 PI WPI; 2003-268145/26.

XX
 XX New use of irinotecan for preparation of pharmaceutical compositions for
 PT treating cancer in subject having genome with variant allele comprising
 PT multidrug resistance 1 polynucleotide.
 XX
 PS Claim 1; Page 79; 130pp; English.

XX The invention relates to the novel use of irinotecan or its derivative
 CC for the preparation of pharmaceutical compositions for treating
 CC colorectal, cervical, gastric, lung, ovarian or pancreatic cancer, or
 CC malignant glioma in a subject having a genome with a variant allele which
 CC comprises a multidrug resistance 1 (MDR1) polynucleotide. A composition
 CC of the invention has cytostatic activity. The invention is useful for the
 CC preparation of pharmaceutical compositions for treating colorectal,
 CC cervical, gastric, lung, ovarian or pancreatic cancer, or malignant
 CC glioma in a subject (preferably human, more preferably African or Asian)
 CC or a mouse. The present sequence is used in the exemplification of the
 CC invention.

XX
 XX Sequence 17 BP; 5 A; 3 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 321 GCAATGTGACTGCTGA 336
 DB 2 GCAATGTGACTGCTGA 17

RESULT 190
 ADB92459
 ID ADB92459 standard; DNA; 17 BP.

CC The invention relates to the isolation of 6327 nucleotide sequences,
 CC fragments of at least 15 consecutive nucleotides of these nucleotides, a
 CC sequence having at least 80% identity, after optimal alignment, with the
 CC nucleotides, a sequence that hybridizes under stringent conditions with
 CC the nucleotides, or the complement, or corresponding RNA, of the
 CC nucleotides. The nucleotides are used as probes or primers for detecting,
 CC identifying, quantifying and/or amplifying nucleic acids, as in vitro
 CC sense and antisense sequences, of nucleotides involved in tumour
 CC suppression or reversion, apoptosis and or viral resistance, to produce
 CC recombinant polypeptides, and to prepare transgenic animals, as
 CC experimental models. The nucleotides (also vectors containing them and
 CC cells containing the vectors), the encoded polypeptides and antibodies
 CC (Ab) against the polypeptide are useful for prevention and/or treatment
 CC of viral infections or diseases characterized by development of tumours
 CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).
 CC Analysis of the expression of the nucleotides can be used for diagnosis
 CC and/or prognosis of these diseases. The nucleotides and polypeptides can
 CC also be used to screen for their specific interactive molecules,
 CC potentially useful for treating diseases associated with abnormal
 CC expression of the nucleotides.
 CC
 XX
 SQ Sequence 17 BP; 6 A; 1 C; 3 G; 7 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 620 ATCTTAAAGTGTAAAT 635
 Db 2 ATCTTAAAGTGTAT 17
 |||||
 |||||

RESULT 193
 ADI48262
 ID ADI48262 standard; DNA; 17 BP.
 XX
 AC ADI48262;
 DT 15-APR-2004 (first entry)
 XX
 DE Human tumour suppression/reversion-related DNA sequence SeqID765.
 XX
 KW tumour suppression; tumour reversion; apoptosis; virus resistance;
 KW cytostatic; virucide; neuroprotective; nootropic; neuroleptic; probe;
 KW primer; PCR; gene chip; antisense; viral disease; tumour;
 KW cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.
 XX
 OS Homo sapiens.
 XX
 PN WO2003025177-A2.
 XX
 PD 27-MAR-2003.
 XX
 PF 17-SEP-2002; 2002WO-IB004523.
 XX
 PR 17-SEP-2001; 2001PR-00011980.
 XX
 PA (MOLE-) MOLECULAR ENGINES LAB.
 XX
 PI Telerman A, Amson R, Tuijnder M;
 XX
 DR WPI; 2003-313354/30.
 XX
 PT New isolated nucleic acid, useful for treating viral diseases associated
 PT with tumors and cell degeneration, also related polypeptides, antibodies
 PT and transfected cells.
 XX
 PS Disclosure; SEQ ID NO 765; 30pp; French.
 XX
 CC This invention relates to novel isolated nucleic acid sequences involved
 CC in the phenomena of tumour suppression, tumour reversion, apoptosis
 CC and/or resistance to viruses. The invention may be useful for the
 CC development of compounds with a cytostatic, virucide, neuroprotective,

CC nootropic or neuroleptic activity. The DNA sequences may be useful as
 CC probes and primers for detecting, indentifying, quantifying and/or
 CC amplifying nucleic acid, for example as one component of a gene chip, in
 CC vitro as antisense reagents and for production of recombinant
 CC polypeptides. The invention may therefore be useful for preparation of
 CC pharmaceuticals for prevention and/or treatment of viral diseases that
 CC are characterized by development of tumours or cell degeneration.
 CC specifically cancer but also Alzheimer's disease and schizophrenia. The
 CC present sequence is that of a nucleic acid sequence of the invention.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/publishedpct_sequences

XX Sequence 17 BP; 7 A; 4 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 1.6%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 1.5e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 261 ATCCTCTATCCAGAAA 276
 Db 2 ATCCTATATCCAGAAA 17
 |||||
 |||||

RESULT 194
 ABZ76052/c
 ID ABZ76052 standard; DNA; 17 BP.

XX
 AC ABZ76052;
 DT 29-MAY-2003 (first entry)
 XX

DE Antigen inhibiting mammalian cruciform formation.

XX
 KW Cruciform; DNA replication; antigen; antibacterial; virucide; fungicide;
 KW protozoazide; antihelminthic; anti-HIV; cytostatic; gene therapy; ds.

XX Synthetic.

XX WO2003012097-A2.

XX 13-FEB-2003.

XX 30-JUL-2002; 2002WO-IB003667.

XX 30-JUL-2001; 2001US-0308636P.

XX (PRIC/) PRICE G B.

XX (ZANN/) ZANNIS-HADJIOPOULOS M.

XX Price GB, Zannis-Hadjopoulos M;

XX WPI; 2003-248179/24.

XX Inhibiting DNA replication or cell proliferation, useful for treating
 PT tumors, comprises contacting a DNA molecule with a nucleic acid antigen
 PT that specifically hybridizes to a portion of the DNA molecule having dyad
 PT symmetry.

XX Claim 11; Page 16; 54pp; English.

XX The invention relates to inhibiting DNA replication and involves
 CC contacting a DNA molecule with a nucleic acid antigen comprising at
 CC least 12 nucleobases selected from natural nucleobases, modified
 CC nucleobases, and their mixture. The antigen specifically hybridizes to a
 CC portion of the DNA molecule having dyad symmetry. The method is useful in
 CC inhibiting DNA replication and, thus, inhibiting the growth of bacteria,
 CC virus (e.g. HIV), fungi, protozoa, helminths and insects. The method is
 CC also useful in inhibiting cell proliferation of tumour cells. The present
 CC sequence represents an antigen inhibiting the cruciform formation of
 CC mammalian replication origin

XX Sequence 17 BP; 2 A; 7 C; 0 G; 8 T; 0 U; 0 Other;

```
Query Match      1.6%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 453 GTGGAATGAAGAAG 468
Db 16 GTGGAGATGAAGAAG 1

RESULT 195
ADK00139/c
ID ADK00139 standard; DNA; 18 BP.
XX
AC ADK00139;
XX
XX
DT 20-MAY-2004 (first entry)
XX
DE Primer of the invention #8.
XX
KW murine genomic region; cancer; Antiinflammatory; Cytostatic;
KW diagnostic reagent; inflammatory disease; acute myeloid leukemia; ss;
KW primer.
XX
OS Synthetic.
XX
PN WO2004016317-A1.
XX
PD 26-FEB-2004.
XX
PF 14-AUG-2003; 2003WO-NL000583.
XX
PR 14-AUG-2002; 2002EP-00078358.
XX
PR 19-SEP-2002; 2002US-00252132.
XX
XX
PA (UYRO-) UNIV ROTTERDAM ERASMUS CENT MEDICAL.
XX
PI Touw IP, Delwel HR, Lowenberg B, Valk PJM;
XX
WPI; 2004-203739/19.
XX
XX
PT Use of a murine genomic region involved in the development of cancer for
PT identifying compounds useful for treating or diagnosing cancer or
PT inflammatory diseases.
XX
PS Example 1; SEQ ID NO 8; 106pp; English.
XX
CC The present invention relates to the use of at least one murine genomic
CC region involved in the development of cancer selected from a set of
CC genomic regions listed in the specification for preparing a polypeptide
CC encoded by the region or for the preparation of an inhibitor able to
CC inhibit the transcription product or activity of a polypeptide encoded by
CC the region, or affected by transformations in the region. The murine
CC genomic region involved in the development of cancer or its human
CC homologue or transcription product is useful for preparing its encoded
CC polypeptide or inhibitor for preparing a diagnostic reagent for
CC diagnosing cancer or for preparing a composition for treating
CC inflammatory diseases or cancer, e.g., acute myeloid leukemia. The
CC present sequence represents a primer of the invention.
XX
SQ Sequence 18 BP; 3 A; 4 C; 5 G; 6 T; 0 U; 0 Other;

Query Match      1.6%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 380 TCACTCTCAGGAGACC 395
Db 16 TCACTCTCAGGAGACC 1

RESULT 196
AAT81501
```

```
ID AAT81501 standard; RNA; 17 BP.
XX
AC AAT81501;
XX
XX
DT 14-DEC-1997 (first entry)
XX
DE Human c-myb hammerhead ribozyme target sequence (nt. position 2701).
XX
KW Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human;
KW smooth muscle cell; hyperproliferation; restenosis; cancer; c-myb;
KW coronary angioplasty; ss.
XX
OS Homo sapiens.
XX
PN WO9531541-A2.
XX
PD 23-NOV-1995.
XX
PF 18-MAY-1995; 95WO-US006368.
XX
PR 18-MAY-1994; 94US-00245466.
XX
PR 13-JAN-1995; 95US-00373124.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Stinchcomb DT, Draper K, Mcswiggen J, Jarvis T;
XX
WPI; 1996-010927/01.
XX
PT New enzymatic nucleic acid molecules - cleave RNA produced by e.g. c-myb,
PT for treating restenosis or cancer.
XX
PS Claim 1; Page 76; 128pp; English.
XX
CC The present sequence represents the preferred target sequence for an
CC enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves
CC the human c-myb sequence at the base position indicated in the descriptor
CC line. The c-myb sequence was screened for optimal ribozyme target sites
CC using a computer folding algorithm, and regions of the mRNA which did not
CC form secondary folding structures and contained potential ribozyme
CC cleavage sites were identified. Ribozymes were synthesised and their
CC activities optimised by either varying the length of the binding arms or
CC by modification to prevent degradation by nucleases. The ribozymes cleave
CC the c-myb sequence and can be used to prevent smooth muscle cell
CC hyperproliferation in restenosis, especially after coronary angioplasty,
CC and in cancers
XX
SQ Sequence 17 BP; 10 A; 0 C; 1 G; 0 T; 6 U; 0 Other;

Query Match      1.6%; Score 14; DB 1; Length 17;
Best Local Similarity 57.1%; Pred. No. 1.6e+02;
Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 709 ATAGTTTATATAAAA 722
Db 3 AUAGUUUUAUAAA 16

RESULT 197
AAT81503
ID AAT81503 standard; RNA; 17 BP.
XX
AC AAT81503;
XX
XX
DT 14-DEC-1997 (first entry)
XX
DE Human c-myb hammerhead ribozyme target sequence (nt. position 2703).
XX
KW Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human;
KW smooth muscle cell; hyperproliferation; restenosis; cancer; c-myb;
KW coronary angioplasty; ss.
XX
OS Homo sapiens.
```


CC form secondary folding structures and contained potential ribozyme
 CC cleavage sites were identified. Ribozymes were synthesised and their
 CC activities optimised by either varying the length of the binding arms or
 CC by modification to prevent degradation by nucleases. The ribozymes cleave
 CC the c-myc sequence and can be used to prevent smooth muscle cell
 CC hyperproliferation in restenosis, especially after coronary angioplasty,
 CC and in cancers

SQ Sequence 17 BP; 10 A; 0 C; 1 G; 0 T; 6 U; 0 Other;

Query Match 1.6%; Score 14; DB 1; Length 17;
 Best Local Similarity 57.1%; Pred. No. 1.6e+02;
 Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY 709 ATAGTTTATATAA 722

Db 2 AUAGUUUUUAAAA 15

RESULT 200

ABK01349/c

ID ABK01349 standard; RNA; 17 BP.

XX AC ABK01349;

XX DT 12-MAR-2002 (first entry)

XX DE Human NOGO Inozyme #619.

XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;
 KW DNazyme; inozyme; G-cleaver; amberyne; zinzyme; lymphoma; leukaemia;
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;
 KW inflammatory arthropathy; central nervous system injury;
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;
 KW Parkinson's disease; ataxia; Huntington's disease;
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.

XX OS Homo sapiens.

OS OS Synthetic.

XX PN WO200159103-A2.

XX PD 16-AUG-2001.

XX PF 09-FEB-2001; 2001WO-US004273.

XX PR 11-FEB-2000; 2000US-0181797P.

XX PR 28-FEB-2000; 2000US-0185516P.

XX PR 06-MAR-2000; 2000US-0187128P.

XX PA (RIBO-) RIBOZYME PHARM INC.

PA (BLAT/) BLATT L.

PA (MCSW/) MCSWIGGEN J.

PA (CHOW/) CHOWRIRA B M.

XX PI Blatt L, Mcswiggen J, Chowrira BM;

XX DR WPI; 2001-607195/69.

XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense
 PT constructs, which down regulate expression of a CD20 gene or neurite
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and
 PT central nervous system injury.

XX PS Claim 88; Page 87; 200pp; English.

XX The invention relates to a nucleic acid molecule which down regulates

CC expression of a CD20 gene and a nucleic acid molecule which down

CC regulates expression of a neurite growth inhibitor gene (NOGO). The
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a
 CC DNazyme) an Inozyme (an endolytic nucleic acid cleaving an RNA molecule
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) pr
 CC an amberyne (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA
 CC of CD20 in the presence of a divalent cation that is preferably Mg²⁺.
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of
 CC the cell and treat a patient having a condition associated with the level
 CC of CD20. The treatment may further comprise the use of one or more
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,
 CC immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the
 CC presence of a divalent cation that is preferably Mg²⁺. Furthermore, the
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the
 CC cell and treat a patient having a condition associated with the level of
 CC NOGO. The treatment may further comprise the use of one or more
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to
 CC treat central nervous system (CNS) injury and cerebrovascular accident
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob
 CC disease, muscular dystrophy, and/or other neurodegenerative disease
 CC states which respond to the modulation of NOGO expression. The present
 CC sequence is an inozyme of the invention

XX SQ Sequence 17 BP; 7 A; 3 C; 2 G; 0 T; 5 U; 0 Other;

Query Match 1.6%; Score 14; DB 1; Length 17;

Best Local Similarity 100.0%; Pred. No. 1.6e+02;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 674 TGAGAACTGATTT 687

Db 17 TGAGAACTGATTT 4

RESULT 201

ABK00484/c

ID ABK00484 standard; RNA; 17 BP.

XX AC ABK00484;

XX DT 12-MAR-2002 (first entry)

XX DE Human NOGO Hammerhead Ribozyme #484.

XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;
 KW DNazyme; inozyme; G-cleaver; amberyne; zinzyme; lymphoma; leukaemia;
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;
 KW inflammatory arthropathy; central nervous system injury;
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;
 KW Parkinson's disease; ataxia; Huntington's disease;
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.

XX OS Homo sapiens.

OS OS Synthetic.

XX PN WO200159103-A2.

XX PD 16-AUG-2001.

XX PF 09-FEB-2001; 2001WO-US004273.

PR	11-FEB-2000; 2000US-0181797P.	KW	Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective; neurotropic; neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NOGO; hampered ribozyme; DNzyme; inozyme; G-cleaver; amberyne; zinzyme; lymphoma; leukaemia; B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia; human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebral vascular accident; CVA; Alzheimer's disease; multiple sclerosis; chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS; Parkinson's disease; ataxia; Huntington's disease; Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
PR	28-FEB-2000; 2000US-0181797P.	KW	
PR	06-MAR-2000; 2000US-0187516P.	KW	
XX		KW	
PA	(RIBO-) RIBOZYME PHARM INC.	KW	
PA	(BLAT/) BLATT L.	KW	
PA	(MCSW/) MCSWIGGEN J.	KW	
PA	(CHOW/) CHOWRIRA B M.	KW	
XX		KW	
PI	Blatt L, Mcswiggen J, Chowrira BM;	KW	
XX		KW	
DR	WPI; 2001-607195/69.	XX	
XX		OS	Homo sapiens.
PT	Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and central nervous system injury.	OS	Synthetic.
PT		XX	
XX		PN	WO200159103-A2.
XX		XX	
PS	Claim 88; Page 73; 200pp; English.	PD	16-AUG-2001.
XX		XX	
CC	The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down regulates expression of a neurite growth inhibitor gene (NOGO). The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a DNzyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or an amberyne (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA of CD20 in the presence of a divalent cation that is preferably Mg ²⁺ . Furthermore, it may be contacted with a cell to reduce CD20 activity of the cell and treat a patient having a condition associated with the level of CD20. The treatment may further comprise the use of one or more therapeutics. In particular, the CD20 targeting nucleic acid may be used to treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune thrombocytopenia, and inflammatory arthropathy. The NOGO-targeting nucleic acid is used to cleave RNA of the NOGO gene in the presence of a divalent cation that is preferably Mg ²⁺ . Furthermore, the nucleic acid may be contacted with a cell to reduce NOGO activity of the cell and treat a patient having a condition associated with the level of NOGO. The treatment may further comprise the use of one or more therapeutics. In particular, the NOGO-targeting nucleic acid may be used to treat central nervous system (CNS) injury and cerebrovascular accident (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS), chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob disease, muscular dystrophy, and/or other neurodegenerative disease states which respond to the modulation of NOGO expression. The present sequence is a hammerhead ribozyme of the invention	XX	
SQ	Sequence 17 BP; 6 A; 3 C; 2 G; 0 T; 6 U; 0 Other;	XX	
	Query Match 1.6%; Score 14; DB 1; Length 17;	CC	
	Best Local Similarity 100.0%; Pred. No. 1.6e+02;	CC	
	Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	CC	
QY	674 TGAGAACTGATTT 687	CC	
DB	14 TGAGAACTGATTT 1	CC	
	RESULT 202	CC	
ID	ABK01996/c	CC	
XX	ABK01996 standard; RNA; 17 BP.	CC	
AC	ABK01996;	CC	
DT	12-MAR-2002 (first entry)	CC	
XX	Human NOGO zinzyme #318.	CC	
DE		CC	
XX		CC	

XX SQ Sequence 17 BP; 6 A; 3 C; 3 G; 0 T; 5 U; 0 Other;
 Query Match 1.6%; Score 14; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 674 TGAGAACTGATTT 687
 |||||
 Db 16 TGAGAACTGATTT 3
 RESULT 203
 ACA08316
 ID ACA08316 standard; DNA; 17 BP.
 XX ACA08316;
 XX 03-JUN-2003 (first entry)
 XX Necrosis factor kappa B (NFkB) sub-unit modulating DNasezyme #85.
 XX Enzymatic nucleic acid; nuclear factor kappa B; NFkB; inozyme; zinzyme;
 KW G-cleaver; amberyne; cancer; REL-A activity; breast cancer; lung cancer;
 KW prostate cancer; colorectal cancer; brain cancer; oesophageal cancer;
 KW stomach cancer; bladder cancer; pancreatic cancer; cervical cancer;
 KW head and neck cancer; ovarian cancer; melanoma; lymphoma; glioma;
 KW multidrug resistant cancer; REL-A-specific inhibitor; chemotherapy;
 KW paclitaxel; docetaxel; cisplatin; methotrexate; cyclophosphamide;
 KW doxorubicin; fluorouracil carboplatin; edatrexate; gemcitabine;
 KW radiation therapy; inflammatory disease; asthma; diabetes;
 KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;
 KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;
 KW transplant/graft rejection; reperfusion injury; glomerulonephritis;
 KW allergic airway inflammation; inflammatory bowel disease; infection; ss.
 XX Synthetic.
 OS
 XX US2002177568-A1.
 PN
 XX 28-NOV-2002.
 PD
 XX 23-MAY-2001; 2001US-00864785.
 PF
 XX 07-DEC-1992; 92US-00987132.
 PR
 XX 18-MAY-1994; 94US-00245466.
 PR
 XX 15-AUG-1994; 94US-00291932.
 PR
 XX 23-DEC-1996; 96US-00777916.
 XX (STIN/) STINCHOMB D T.
 PA (MCSW/) MCSWIGGEN J.
 PA (DRAP/) DRAPER K G.
 XX Stinchcomb DT, Mcswiggen J, Draper KG;
 PI WPI; 2003-340953/32.
 DR
 XX Novel enzymatic nucleic acid molecules which down regulates expression of
 PT a sequence encoding a subunit of nuclear factor kappa B useful for
 PT treating cancer, inflammatory disorders and autoimmune diseases.
 XX Claim 3; Page 48; 72pp; English.
 XX The invention describes an enzymatic nucleic acid molecule (I) which down
 CC regulates expression of a sequence encoding a subunit of nuclear factor
 CC kappa B (NFkB), where (I) is an inozyme, zinzyme, G-cleaver or amberyne
 CC configuration. The enzymatic nucleic acid molecule is adapted to treat
 CC cancer and is useful for down-regulating REL-A activity in a cell, for
 CC treating a patient having a condition associated with the level of REL-A.
 CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in
 CC the presence of a divalent cation, especially Mg²⁺. The enzymatic and
 CC antisense nucleic acid molecules are useful for treating breast, lung,
 CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,

CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or
 CC multidrug resistant cancer. The method involves use of other drug
 CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or
 CC chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,
 CC cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,
 CC gemcitabine or radiation therapy. The enzymatic and antisense nucleic
 CC acid molecules are also useful for treating inflammatory disease such as
 CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,
 CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft
 CC rejection, gene therapy applications, ischaemia/reperfusion injury
 CC (central nervous system (CNS) and myocardial), glomerulonephritis,
 CC sepsis, allergic airway inflammation, inflammatory bowel disease or
 CC infection. This sequence represents an enzymatic nucleic acid used to
 CC modulate the function of a necrosis factor kappa B sub-unit
 XX
 SQ Sequence 17 BP; 2 A; 6 C; 5 G; 0 T; 4 U; 0 Other;
 Query Match 1.6%; Score 14; DB 1; Length 17;
 Best Local Similarity 71.4%; Pred. No. 1.6e+02;
 Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 830 CCTGTATGGCACT 843
 |||:|:|:|:|:
 Db 3 CCUGUAGGCACU 16
 RESULT 204
 ACA09130
 ID ACA09130 standard; RNA; 17 BP.
 XX ACA09130;
 XX 03-JUN-2003 (first entry)
 XX NFkB sub-unit modulating amberyne substrate #293.
 XX Enzymatic nucleic acid; nuclear factor kappa B; NFkB; inozyme; zinzyme;
 KW G-cleaver; amberyne; cancer; REL-A activity; breast cancer; human;
 KW lung cancer; prostate cancer; colorectal cancer; brain cancer;
 KW oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;
 KW cervical cancer; head and neck cancer; ovarian cancer; melanoma;
 KW lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;
 KW chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;
 KW cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate;
 KW gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;
 KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;
 KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;
 KW transplant/graft rejection; reperfusion injury; glomerulonephritis;
 KW allergic airway inflammation; inflammatory bowel disease; infection; ss.
 XX Homo sapiens.
 OS
 XX US2002177568-A1.
 PN
 XX 28-NOV-2002.
 PD
 XX 23-MAY-2001; 2001US-00864785.
 PF
 XX 07-DEC-1992; 92US-00987132.
 PR
 XX 18-MAY-1994; 94US-00245466.
 PR
 XX 15-AUG-1994; 94US-00291932.
 PR
 XX 23-DEC-1996; 96US-00777916.
 XX (STIN/) STINCHOMB D T.
 PA (MCSW/) MCSWIGGEN J.
 PA (DRAP/) DRAPER K G.
 XX Stinchcomb DT, Mcswiggen J, Draper KG;
 PI WPI; 2003-340953/32.
 DR
 XX Novel enzymatic nucleic acid molecules which down regulates expression of
 PT a sequence encoding a subunit of nuclear factor kappa B useful for

treating cancer, inflammatory disorders and autoimmune diseases.

Claim 3; Page 57; 72pp; English.

The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B (NFkB), where (I) is an inozyme, zynzyme, G-cleaver or amberzyme configuration. The enzymatic nucleic acid molecule is adapted to treat cancer and is useful for down-regulating REL-A activity in a cell, for treating a patient having a condition associated with the level of REL-A. (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in the presence of a divalent cation, especially Mg²⁺. The enzymatic and antisense nucleic acid molecules are useful for treating breast, lung, prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic, cervical, head and neck, ovarian cancer, melanoma, glioma or multidrug resistant cancer. The method involves use of other drug therapies such as monoclonal antibodies, REL-A-specific inhibitors or chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate, cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate, gemcitabine or radiation therapy. The enzymatic and antisense nucleic acid molecules are also useful for treating inflammatory disease such as rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes, obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft rejection, gene therapy applications, ischaemia/reperfusion injury (central nervous system (CNS) and myocardial), glomerulonephritis, sepsis, allergic airway inflammation, inflammatory bowel disease or infection. This sequence represents the substrate of a novel enzymatic nucleic acid molecule

Sequence 17 BP; 2 A; 6 C; 5 G; 0 T; 4 U; 0 Other;

Query Match 1.6%; Score 14; DB 1; Length 17;

Best Local Similarity 71.4%; Pred. No. 1.6e+02;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 830 CCTGTATGCGCACT 843

||||:|||||

Db 1 CCCGUAUGGCACU 14

RESULT 205

ACC40921

ID ACC40921 standard; DNA; 20 BP.

XX AC ACC40921;

XX DT 23-MAY-2003 (first entry)

XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150475.

XX KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic; antiinflammatory; amyotrophic lateral sclerosis; apoptosis; hyperproliferative disorder; therapy; infection; inflammation; tumour; ss.

XX OS Homo sapiens.

XX OS Synthetic.

XX FH Key Location/Qualifiers

FT modified_base 1..20

FT /*tag= a

FT /mod_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

FT modified_base 1..5

FT /*tag= b

FT /mod_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

FT modified_base 16..20

FT /*tag= c

FT /mod_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"

XX FT

XX FT

XX FT

XX FT

XX FT

XX FT

XX FT

XX FT

PN WC2003000707-A2.

XX PD 03-JAN-2003.

XX PD 19-JUN-2002; 2002WO-US019664.

XX PP 21-JUN-2001; 2001US-00898360.

XX PR (ISIS-) ISIS PHARM INC.

XX PA Bennett FC, Dobie K;

XX PI WPI; 2003-184032/18.

XX DR Novel antisense compounds targeted to nucleic acids encoding human superoxide dismutase 1, for modulating expression of the dismutase and treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

XX PS Example 15; Page 77; 107pp; English.

XX CC The invention relates to a compound of 8-50 nucleobases in length, targeted to a nucleic acid molecule encoding human superoxide dismutase 1. The compound specifically hybridises with and inhibits the expression of human superoxide dismutase 1 by hybridising with at least an 8-nucleobase portion of the nucleic acid molecule encoding the active site of the enzyme. The activity of compounds of the invention may be described as neuroprotective, cytostatic and antiinflammatory. The mechanism of action of compounds of the invention is antisense inhibition of human superoxide dismutase 1 expression by chimeric phosphorothioate oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap. Compounds of the invention are useful for inhibiting the expression of human superoxide dismutase 1 in human cells or tissues, and for treating a disease or condition associated with this enzyme (antisense therapy), especially amyotrophic lateral sclerosis, a disease or condition arising from aberrant apoptosis and a hyperproliferative disorder. It may also be used in diagnostics, therapeutics and as a research reagent, e.g. prophylactically to prevent or delay infection, inflammation or tumour formation. Sequences given in records ACC40890-ACC40957 represent human superoxide dismutase 1 antisense inhibitor oligonucleotides

XX SQ Sequence 20 BP; 8 A; 2 C; 2 G; 8 T; 0 U; 0 Other;

Query Match 1.6%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 711 AGTTTATAAACT 724

|||||

Db 3 AGTTTATAAACT 16

RESULT 206

ACC40922

ID ACC40922 standard; DNA; 20 BP.

XX AC ACC40922;

XX DT 23-MAY-2003 (first entry)

XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150476.

XX KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic; antiinflammatory; amyotrophic lateral sclerosis; apoptosis; hyperproliferative disorder; therapy; infection; inflammation; tumour; ss.

XX OS Homo sapiens.

XX OS Synthetic.

XX FH Key Location/Qualifiers

FT modified_base 1..20

FT /*tag= a

FT /mod_base= OTHER

XX FT

XX FT

XX FT

XX FT

XX FT

XX FT

FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX
 PN WO2003000707-A2.
 XX
 XX 03-JAN-2003.
 XX
 XX 19-JUN-2002; 2002WO-US019664.
 XX
 XX 21-JUN-2001; 2001US-00888360.
 XX
 PA (ISIS-) ISIS PHARM INC.
 XX
 XX Bennett FC, Dobie K;
 XX
 PI WPI; 2003-184032/18.
 XX
 XX Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX
 PS Example 15; Page 77; 107pp; English.
 CC
 CC The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 9 A; 2 C; 2 G; 7 T; 0 U; 0 Other;
 Query Match 1.6%; Score 14; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. NO. 1.8e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 711 AGTTTATATAAACT 724
 DB |||||
 6 AGTTTATATAAACT 19
 RESULT 207
 AAX73200/c
 ID AAX73200 standard; RNA; 17 BP.
 XX
 AC AAX73200;
 XX
 XX 28-JUL-1999 (first entry)
 DT
 DE Mouse flk-1 VEGF receptor hammerhead ribozyme substrate #633.
 XX
 XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;

KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;
 KW foetal liver kinase 1; ss.
 XX
 OS Mus sp.
 XX
 PN WO9715662-A2.
 XX
 PD 01-MAY-1997.
 XX
 XX 25-OCT-1996; 96WO-US017480.
 PF
 XX 26-OCT-1995; 95US-0005974P.
 PR
 XX 11-JAN-1996; 96US-00584040.
 PR
 XX (RISO-) RIBOZYME PHARM INC.
 PA (CHIR) CHIRON CORP.
 XX
 XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;
 PI WPI; 1997-259017/23.
 XX
 XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
 PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,
 PT rheumatoid arthritis, etc., in a human patient.
 XX
 PS Claim 4; Page 143; 218pp; English.
 XX
 CC The present invention describes nucleic acid molecules which modulate the
 CC synthesis, expression and/or stability of a mRNA encoding 1 or more
 CC receptors of vascular endothelial growth factor (VEGF). A patient
 CC (preferably human) having a condition associated with the level of the
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
 CC treated by administering the nucleic acid molecule or the expression
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples
 CC of nucleic acid molecules from the present invention
 XX
 SQ Sequence 17 BP; 5 A; 5 C; 5 G; 0 T; 2 U; 0 Other;
 Query Match 1.6%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. NO. 1.7e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 543 TGTACTCTGAGCCCT 559
 DB |||||
 17 TGCAGTCTGAGTCCCT 1
 RESULT 208
 AAV96545
 ID AAV96545 standard; RNA; 17 BP.
 XX
 AC AAV96545;
 XX
 XX 01-MAR-1999 (first entry)
 DT
 XX
 DE Potato citrate synthase target sequence position 858.
 XX
 XX Solanidine; glucosyltransferase; potato; citrate synthase; target;
 KW hammerhead ribozyme; hairpin ribozyme; alkaloid biosynthesis;
 KW flower formation; cleavage; solanaceous plant; ss.
 XX
 OS Solanum tuberosum.
 XX
 PN WO9832843-A2.
 XX
 PD 30-JUL-1998.
 XX
 XX 14-JAN-1998; 98WO-US000738.
 PF
 XX

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PR 28-JAN-1997; 97US-0036545P.
PR 28-JAN-1997; 97US-0036599P.
PR 24-NOV-1997; 97US-00979416.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Zwick MG, Mcswiggen JA;
XX
XX WPI; 1998-427939/36.
XX
XX New enzymatic nucleic acid(s) - useful for, e.g. reducing alkaloid
PT biosynthesis or regulating flowering.
XX
PS Claim 53; Page 55; 79pp; English.
XX
XX The present invention describes enzymatic nucleic acid molecules with RNA
CC -cleaving activity (e.g. ribozymes) which are capable of modulating the
CC expression of plant genes: (i) involved in biosynthesis of alkaloids; or
CC (ii) involved in flower formation. AAV95982 to AAV96334, and AAV96335 to
CC AAV96354 represent potato solanidine glucosyltransferase hammerhead and
CC hairpin ribozymes, respectively. AAV95629 to AAV95981, and AAV96355 to
CC AAV96734 represent potato solanidine glucosyltransferase target
CC sequences. AAV96773 to AAV97170, and AAV97171 to AAV97195 represent
CC potato citrate synthase hammerhead and hairpin ribozymes, respectively.
CC AAV96735 to AAV96772, and AAV97196 to AAV97220 represent potato citrate
CC synthase target sequences. Ribozymes of the present invention can be used
CC to inhibit the synthesis of toxic alkaloids in solanaceous plants,
CC particularly potato but also tomato, pepper, aubergine and dicura or to
CC inhibit flowering in potato, lettuce, spinach, cabbage, brussel sprouts,
CC arugula, kale, collards, chard, beet, turnip, sweet potato and turf
CC grass. Also the ribozymes can be used for RNA manipulation in the same
CC way that restriction endonucleases are for DNA, as well as to examine
CC genetic drift and mutations in plants and to detect specific RNA. The
CC ribozymes can be targeted to specific genes or to consensus sequences
CC within a family of related genes, and being catalytic need to be present
CC at only very low concentrations
XX
SQ Sequence 17 BP; 4 A; 3 C; 4 G; 0 T; 6 U; 0 Other;
Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 1.7e+02;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
OY 839 GCACCTATTATGAGGCT 855
Db 1 GAACUUCUUAUGAGGCU 17
RESULT 209
AAFO4937
ID AAF04937 standard; DNA; 17 BP.
XX
XX AAF04937;
AC
XX
XX 16-FEB-2001 (first entry)
DT
DE Hammerhead ribozyme substrate #2453.
XX
XX Ribozyme; erythropoietin; granulocyte colony stimulating factor;
KW interferon alpha; ss.
XX
XX Homo sapiens.
OS
XX WO200061729-A2.
PN
XX 19-OCT-2000.
PD
XX 11-APR-2000; 2000WO-US009721.
PF
XX 12-APR-1999; 99US-0129390P.
PR
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX Blatt L, Zwick M, Pavco P, Mcswiggen J;
PI WPI; 2000-647423/62.
DR
XX Enzymatic and antisense nucleic acid inhibition of repressor genes,
PT useful for producing e.g. granulocyte colony stimulating factor protein,
KW interferon alpha and erythropoietin.
XX
XX Claim 4; Page 111; 164pp; English.
PS
XX The present invention relates to enzymatic and antisense nucleic acid
CC molecules that act as inhibitors of the expression of repressor genes
CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
CC factor gene, IRF-2 and/or the CAAAT Displacement Protein (CDP).
CC Inhibition of the repressors removes prevents inhibition (and
CC consequently increases expression of) genes involved in the production of
CC erythropoietin, granulocyte colony stimulating factor protein and
CC interferon alpha
XX
SQ Sequence 17 BP; 4 A; 2 C; 4 G; 7 T; 0 U; 0 Other;
Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.7e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
OY 778 TGGGTATTAACTTGTC 794
Db 1 TGGGTTTAAACATGTC 17
RESULT 210
AAFO4936
ID AAF04936 standard; DNA; 17 BP.
XX
XX AAF04936;
AC
XX
XX 16-FEB-2001 (first entry)
DT
DE Hammerhead ribozyme substrate #2452.
XX
XX Ribozyme; erythropoietin; granulocyte colony stimulating factor;
KW interferon alpha; ss.
XX
XX Homo sapiens.
OS
XX WO200061729-A2.
PN
XX 19-OCT-2000.
PD
XX 11-APR-2000; 2000WO-US009721.
PF
XX 12-APR-1999; 99US-0129390P.
PR
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX Blatt L, Zwick M, Pavco P, Mcswiggen J;
PI WPI; 2000-647423/62.
DR
XX Enzymatic and antisense nucleic acid inhibition of repressor genes,
PT useful for producing e.g. granulocyte colony stimulating factor protein,
KW interferon alpha and erythropoietin.
XX
XX Claim 4; Page 111; 164pp; English.
PS
XX The present invention relates to enzymatic and antisense nucleic acid
CC molecules that act as inhibitors of the expression of repressor genes
CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
CC factor gene, IRF-2 and/or the CAAAT Displacement Protein (CDP).
CC Inhibition of the repressors removes prevents inhibition (and
CC consequently increases expression of) genes involved in the production of
CC erythropoietin, granulocyte colony stimulating factor protein and
CC interferon alpha
XX

```

```

XX SQ Sequence 17 BP; 5 A; 1 C; 4 G; 7 T; 0 U; 0 Other;
      Query Match      1.6%; Score 13.8; DB 1; Length 17;
      Best Local Similarity 88.2%; Pred. No. 1.7e+02;
      Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 777 ATGGGTATTAAACTTGT 793
      ||||| ||||| |||
Db 1 ATGGGTTTAAACATGT 17

RESULT 211
AAFO4935
ID AAF04935 standard; DNA; 17 BP.
XX
AC AAF04935;
XX
DT 16-FEB-2001 (first entry)
XX
DE Hammerhead ribozyme substrate #2451.
XX
KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;
KW interferon alpha; ss.
XX
OS Homo sapiens.
XX
PN WO200061729-A2.
XX
PD 19-OCT-2000.
XX
PF 11-APR-2000; 2000WO-US0009721.
XX
PR 12-APR-1999; 99US-0129390P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Blatt L, Zwick M, Pavco P, Mcswiggen J;
XX
WPI; 2000-647423/62.
XX
PT Enzymatic and antisense nucleic acid inhibition of repressor genes,
PT useful for producing e.g. granulocyte colony stimulating factor protein,
PT interferon alpha and erythropoietin.
XX
PS Claim 4; Page 111; 164pp; English.
XX
CC The present invention relates to enzymatic and antisense nucleic acid
CC molecules that act as inhibitors of the expression of repressor genes
CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription
CC factor gene, IRF-2 and/or the CCAAT Displacement Protein (CDP).
CC Inhibition of the repressors removes prevents inhibition (and
CC consequently increases expression of) genes involved in the production of
CC erythropoietin, granulocyte colony stimulating factor protein and
CC interferon alpha.
XX
SQ Sequence 17 BP; 5 A; 1 C; 5 G; 6 T; 0 U; 0 Other;
      Query Match      1.6%; Score 13.8; DB 1; Length 17;
      Best Local Similarity 88.2%; Pred. No. 1.7e+02;
      Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 776 GATGGGTATTAAACTTG 792
      ||||| ||||| |||
Db 1 GATGGGTTTAAACATG 17

RESULT 212
ABK01097/c
ID ABK01097 standard; RNA; 17 BP.
XX
AC ABK01097;
XX

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```

DT 12-MAR-2002 (first entry)
XX
DE Human NOGO Inozyme #367.
XX
KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
KW cerebroprotective; nootropic; neuroprotective; antiparkinsonian;
KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;
KW DNazyme; inozyme; G-cleaver; amberzyme; zinczyme; lymphoma; leukaemia;
KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;
KW inflammatory arthropathy; central nervous system injury;
KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;
KW Parkinson's disease; ataxia; Huntington's disease;
KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
XX
OS Homo sapiens.
OS Synthetic.
XX
PN WO200159103-A2.
XX
PD 16-AUG-2001.
XX
PF 09-FEB-2001; 2001WO-US004273.
XX
PR 11-FEB-2000; 2000US-0181797P.
PR 28-FEB-2000; 2000US-0185516P.
PR 06-MAR-2000; 2000US-0187128P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PA (BLAT/) BLATT L.
PA (MCSW/) MCSWIGGEN J.
PA (CHOW/) CHOWRIRA B M.
XX
PI Blatt L, Mcswiggen J, Chowrira BM;
XX
WPI; 2001-607195/69.
XX
PT Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense
PT constructs, which down regulate expression of a CD20 gene or neurite
PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and
PT central nervous system injury.
XX
PS Claim 88; Page 83; 200pp; English.
XX
CC The invention relates to a nucleic acid molecule which down regulates
CC expression of a CD20 gene and a nucleic acid molecule which down
CC regulates expression of a neurite growth inhibitor gene (NGO). The
CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a
CC DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule
CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or
CC an amberzyme (cleaving RNA with an NGN triplet), a zinczyme (cleaving RNA
CC with a XGY motif). The CD20-targeting nucleic acid is used to cleave RNA
CC of CD20 in the presence of a divalent cation that is preferably Mg2+.
CC Furthermore, it may be contacted with a cell to reduce CD20 activity of
CC the cell and treat a patient having a condition associated with the level
CC of CD20. The treatment may further comprise the use of one or more
CC therapeutics. In particular, the CD20 targeting nucleic acid may be used to
CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-
CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic
CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell
CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,
CC immune thrombocytopaenia, and inflammatory arthropathy. The NGO-
CC targeting nucleic acid is used to cleave RNA of the NGO gene in the
CC presence of a divalent cation that is preferably Mg2+. Furthermore, the
CC nucleic acid may be contacted with a cell to reduce NGO activity of the
CC cell and treat a patient having a condition associated with the level of
CC NGO. The treatment may further comprise the use of one or more
CC therapeutics. In particular, the NGO-targeting nucleic acid may be used to
CC treat central nervous system (CNS) injury and cerebrovascular accident
CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),
CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),

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CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob
 CC disease, muscular dystrophy, and/or other neurodegenerative disease
 CC states which respond to the modulation of NOGO expression. The present
 CC sequence is an inozyme of the invention

XX
 SQ Sequence 17 BP; 7 A; 3 C; 1 G; 0 T; 6 U; 0 Other;

Query Match 1.6%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. NO. 1.7e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 730 AAAATGCTGTTTCAAT 746
 ||||| ||||| ||||| |||||
 Db 17 AAAATGTTGTGCAAT 1

RESULT 213
 ABA80297/C
 ID ABA80297 standard; DNA; 17 BP.
 XX
 AC ABA80297;
 XX
 DT 24-JAN-2002 (first entry)
 XX
 DE MLH1 mutation correcting oligonucleotide SEQ ID NO: 3143.

XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
 KW haemophilia; alpha thalassemia; haemoglobin alpha locus 1; MLH1; APOE;
 KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
 KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
 KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
 KW Alzheimer's disease; cytostatic; antiseizure; antianaemic; haemostatic;
 KW antileptic; ss.

XX Homo sapiens.
 OS
 XX
 PN WO200173002-A2.
 XX
 PD 04-OCT-2001.

XX 27-MAR-2001; 2001WO-US009761.
 XX
 PF 27-MAR-2000; 2000US-0192176P.
 XX
 PR 27-MAR-2000; 2000US-0192179P.
 XX
 PR 01-JUN-2000; 2000US-0208538P.
 XX
 PR 30-OCT-2000; 2000US-0244989P.
 XX
 PA (UYDE) UNIV DELAWARE.
 XX
 XX Kmiec EB, Gamper HB, Rice MC;
 PI
 XX WPI; 2001-639230/73.

XX Oligonucleotide for targeted alterations of genetic sequences and for
 PT treating cystic fibrosis, comprises at least one mismatch and chemical
 PT modification.

XX
 XX
 PS Claim 7; Page 217; 294pp; English.

XX The present invention provides single-stranded oligonucleotides which can
 CC be used for the targeted alteration of genomic sequences, where the
 CC oligonucleotide has at least one mismatch compared with the genomic
 CC sequence to be altered. In particular, these sequences are directed at
 CC the following genes: adenosine deaminase, p53, beta-globin,
 CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
 CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
 CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
 CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and
 CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases

CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,
 CC haemophilia, hypercholesterolaemia, thalassemia, sickle cell anaemia,
 CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
 CC various syndromes. The present sequence is one of the gene correcting
 CC oligonucleotides of the invention

XX
 SQ Sequence 17 BP; 7 A; 2 C; 2 G; 6 T; 0 U; 0 Other;

Query Match 1.6%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. NO. 1.7e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 676 AGAACTGATTTATGAT 692
 ||||| ||||| ||||| |||||
 Db 17 AGATACTCATTTATGAT 1

RESULT 214
 ABA80296
 ID ABA80296 standard; DNA; 17 BP.
 XX
 AC ABA80296;
 XX
 DT 24-JAN-2002 (first entry)
 XX
 DE MLH1 mutation correcting oligonucleotide SEQ ID NO: 3142.

XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
 KW haemophilia; alpha thalassemia; haemoglobin alpha locus 1; MLH1; APOE;
 KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
 KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
 KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
 KW Alzheimer's disease; cytostatic; antiseizure; antianaemic; haemostatic;
 KW antileptic; ss.

XX Homo sapiens.
 OS
 XX
 PN WO200173002-A2.
 XX
 PD 04-OCT-2001.

XX 27-MAR-2001; 2001WO-US009761.
 XX
 PF 27-MAR-2000; 2000US-0192176P.
 XX
 PR 27-MAR-2000; 2000US-0192179P.
 XX
 PR 01-JUN-2000; 2000US-0208538P.
 XX
 PR 30-OCT-2000; 2000US-0244989P.
 XX
 PA (UYDE) UNIV DELAWARE.
 XX
 XX Kmiec EB, Gamper HB, Rice MC;
 PI
 XX WPI; 2001-639230/73.

XX Oligonucleotide for targeted alterations of genetic sequences and for
 PT treating cystic fibrosis, comprises at least one mismatch and chemical
 PT modification.

XX
 XX
 PS Claim 7; Page 217; 294pp; English.

XX The present invention provides single-stranded oligonucleotides which can
 CC be used for the targeted alteration of genomic sequences, where the
 CC oligonucleotide has at least one mismatch compared with the genomic
 CC sequence to be altered. In particular, these sequences are directed at
 CC the following genes: adenosine deaminase, p53, beta-globin,
 CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
 CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
 CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
 CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and
 CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases

CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
 CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,
 CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
 CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
 CC various syndromes. The present sequence is one of the gene correcting
 CC oligonucleotides of the invention
 XX
 SQ Sequence 17 BP; 6 A; 2 C; 2 G; 7 T; 0 U; 0 Other;
 Query Match 1.6%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 1.7e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 676 AGAACTGATTATGAT 692
 DB 1 AGATACTATTATGAT 17
 RESULT 215
 AAF91029/c
 ID AAF91029 standard; DNA; 17 BP.
 XX
 AC AAF91029;
 XX
 DT 04-MAY-2001 (first entry)
 XX
 DE Human multi drug resistance-1 gene related sequence SEQ ID NO: 116.
 XX
 KW Human; MDR-1; multi drug resistance-1; drug uptake; disease; cancer;
 KW inflammatory disease; neuronal disease; CNS disease;
 KW cardiovascular disease; PCR primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200109183-A2.
 XX
 PD 08-FEB-2001.
 XX
 PF 28-JUL-2000; 2000WO-EP007314.
 XX
 PR 10-JUL-1999; 99EP-00114938.
 PR 22-FEB-2000; 2000EP-00103361.
 XX
 PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
 XX
 PI Brinkmann U, Hoffmeyer S, Eichelbaum M, Roots I;
 XX
 XX WPI; 2001-159855/16.
 DR
 XX
 PT New polynucleotide encoding a molecular variant Multi Drug Resistance
 PT (MDR)-1 polypeptide is useful for diagnosing and treating diseases
 PT associated with abnormal MDR-1 expression or function, e.g. cancer.
 XX
 PS Claim 1; Page 101; 154pp; English.
 XX
 CC The present invention provides nucleotides encoding molecular variants of
 CC the human multi drug resistance-1 (MDR-1) protein. These can be used to
 CC identify compounds capable of treating multidrug resistance and
 CC sensitivity interfering resulting from polymorphisms in MDR-1, which can
 CC lead to difficulties in treating cancer, cardiovascular, neuronal,
 CC inflammatory and CNS diseases
 XX
 SQ Sequence 17 BP; 5 A; 5 C; 3 G; 4 T; 0 U; 0 Other;
 Query Match 1.6%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 1.7e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 319 GGCAATGTCATGCTG 335
 DB 17 GTGCAATGTAACGCTG 1

RESULT 216
 ABN08968
 ID ABN08968 standard; DNA; 17 BP.
 XX
 AC ABN08968;
 XX
 DT 29-MAY-2002 (first entry)
 XX
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8960.
 XX
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200192524-A2.
 XX
 PD 06-DEC-2001.
 XX
 PF 25-MAY-2001; 2001WO-US016981.
 XX
 PR 26-MAY-2000; 2000US-0207456P.
 PR 21-SEP-2000; 2000US-0234687P.
 PR 27-SEP-2000; 2000US-0236359P.
 PR 04-OCT-2000; 2000GB-00024263.
 PR 30-JAN-2001; 2001WO-US000661.
 PR 30-JAN-2001; 2001WO-US000662.
 PR 30-JAN-2001; 2001WO-US000663.
 PR 30-JAN-2001; 2001WO-US000664.
 PR 30-JAN-2001; 2001WO-US000665.
 PR 30-JAN-2001; 2001WO-US000666.
 PR 30-JAN-2001; 2001WO-US000667.
 PR 30-JAN-2001; 2001WO-US000668.
 PR 30-JAN-2001; 2001WO-US000669.
 PR 30-JAN-2001; 2001WO-US000670.
 PR 05-FEB-2001; 2001US-0266860P.
 XX
 PA (AEOM-) AEOMICA INC.
 XX
 PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX
 XX WPI; 2002-179446/23.
 DR
 XX
 PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 PT or as specific biomolecule capture probes for surface-enhanced laser
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
 XX
 PS Disclosure; SEQ ID NO 8960; 214pp; English.
 XX
 CC The present invention describes a human genome-derived myosin-like
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 CC nucleic acids can be used as probes to detect, characterise and quantify
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1
 CC protein variants having desired phenotypic improvements, and for
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 CC capture probes for surface-enhanced laser desorption/ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMPLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence

SQ Sequence 17 BP; 5 A; 4 C; 6 G; 2 T; 0 U; 0 Other;
Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.7e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 183 CTGAAGGCGCTGCATGGA 199
||||| : |||||
1 CTGAAGGCGCGACATGGA 17

DB
RESULT 217
ACN03785
ID ACN03785 standard; RNA; 17 BP.
XX
AC ACN03785;
XX
DT 22-APR-2004 (first entry)
XX
DE WNV Zinzyne substrate SEQ ID NO 3788.
XX
KW WNV; West Nile Virus; antiinflammatory; cytostatic; hepatotropic;
KW virucide; neuroprotective; antibacterial; replication; pancreatitis;
KW encephalitis; myocarditis; meningitis; infection; hepatitis;
KW liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNazyme;
KW Amberzyme; Zinzyne, ss.
XX
OS West Nile Virus.
XX
PN WO200268637-A2.
XX
PD 06-SEP-2002.
XX
PF 19-OCT-2001; 2001WO-US048350.
XX
PR 20-OCT-2000; 2000US-0242411P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PA (BLAT/) BLATT L.
PA (MCSW/) MCSWIGGEN J A.
XX
PI Blatt L, Mcswiggen JA;
XX
DR WPI; 2002-706994/76.
XX
PT New nucleic acid molecule that modulates replication of West Nile Virus
PT (WNV), useful for treating a condition related to WNV infection e.g.
PT pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
XX
PS Claim 23; SEQ ID NO 3788; 495pp; English.
XX
CC The invention relates to nucleic acid molecules that modulate replication
CC of the West Nile Virus (WNV). The nucleic acid molecules are useful for
CC treating a condition related to WNV infection e.g. pancreatitis,
CC encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
CC liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
CC molecule is selected from the group of ribozymes consisting of
CC Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyne. The
CC nucleic acid molecules further comprise at least five ribose residues, at
CC least ten 2'-O-methyl modifications, phosphorothioate linkages on at
CC least three of the 5' terminal nucleotides and a 3' end modification of a
CC 3'-3', inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 3788
CC are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given
CC in the specification. The present sequence is that of a nucleic acid
CC molecule of the invention
XX
SQ Sequence 17 BP; 6 A; 2 C; 8 G; 0 T; 1 U; 0 Other;
Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 1.7e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 163 GCGAAGCATTAAAGGAC 179

DB
||||| : |||||
1 GCGAAGCAGUGAGGAC 17

RESULT 218
ADB03682
ID ADB03682 standard; DNA; 17 BP.
XX
AC ADB03682;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human MDZ7 scanning oligonucleotide SEQ ID 4668.
XX
KW Cytostatic; immunostimulant; gene therapy; vaccine; human;
KW zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1;
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
KW developmental disorder; ss.
XX
OS Homo sapiens.
XX
PN BP1281758-A2.
XX
PD 05-FEB-2003.
XX
PF 30-JUL-2002; 2002EP-00016874.
XX
PR 02-AUG-2001; 2001US-00922181.
XX
PA (AEOM-) AEOMICA INC.
XX
PI Shannon M, Gu Y, Nguyen C;
XX
DR WPI; 2003-423107/40.
XX
PT New zinc finger-containing proteins and nucleic acids, useful in
PT manufacturing a medicament for treating or preventing a disorder
PT associated with decreased or increased expression or activity of MDZ3,
PT MDZ4, MDZ7 or MDZ12, e.g. cancer.
XX
PS Example 8; SEQ ID NO 4668; 103pp; English.
XX
CC The present invention relates to novel human zinc finger-containing
CC proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is
CC encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2,
CC MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome
CC 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy,
CC or in manufacturing a medicament for treating or preventing a disorder
CC associated with decreased or increased expression or activity of MDZ3,
CC MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic
CC acids and proteins are also useful for diagnosing or monitoring a disease
CC caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic
CC acids can also be used as probes to detect and characterize gross
CC alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.
XX
SQ Sequence 17 BP; 2 A; 8 C; 4 G; 3 T; 0 U; 0 Other;
Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.7e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 549 CTGAGGCCCTTAACTC 565
||||| : |||||
1 CTGAGGCCCTCAGCTC 17

DB
RESULT 219
ACD62281
ID ACD62281 standard; RNA; 17 BP.
XX

AC ACD62281;
 XX 23-SEP-2003 (first entry)
 DE HCV minus strand DNzyme substrate sequence #480.
 XX
 XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
 KW RNA stability; RNA expression; RNA synthesis; antisenese;
 KW enzymatic nucleic acid; hammerhead ribozyme; DNzyme; inozyme; zinzyme;
 KW amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;
 KW HBV reverse transcriptase; Enhancer I region; viral replication;
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
 KW virucide; antiinflammatory; substrate; ss.
 XX
 XX Hepatitis C virus.
 XX
 XX WO200281494-A1.
 XX
 XX 17-OCT-2002.
 XX
 XX 26-MAR-2002; 2002WO-US009187.
 XX
 XX 26-MAR-2001; 2001US-00817879.
 PR 08-JUN-2001; 2001US-00877478.
 PR 08-JUN-2001; 2001US-0296876P.
 PR 24-OCT-2001; 2001US-0335059P.
 PR 05-DEC-2001; 2001US-0337055P.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA (BLAT/) BLATT L.
 PA (MACE/) MACEJAK D.
 PA (MCSW/) MCSWIGGEN J.
 PA (MORE/) MORRISSEY D.
 PA (PAVC/) PAVCO P.
 PA (LEEP/) LEE P.
 PA (DRAP/) DRAPER K.
 PA (ROBE/) ROBERTS E.
 XX
 XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
 PI Draper K, Roberts E;
 PI WPI; 2003-229207/22.
 DR
 XX Novel compound useful for treating cirrhosis, liver failure,
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus
 PT infection.
 PT
 XX Claim 1; Page 283; 387pp; English.
 PS
 XX The present invention relates to nucleic acid molecules which modulate
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNzymes,
 CC inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV
 CC DNA. The nucleic acids may be used to modulate the expression of HBV
 CC genes and HBV viral replication. Also disclosed is a method for screening
 CC compounds and/or potential therapies directed against HBV, and compounds
 CC that modulate the expression and/or replication of HCV. The compounds and
 CC methods of the invention are useful for the treatment of degenerative and
 CC disease states related to HBV and HCV infection, replication and gene
 CC expression such as cirrhosis, liver failure, and hepatocellular
 CC carcinoma. The present sequence represents a substrate for one of the HCV
 CC DNzyme or minus strand DNzyme sequences disclosed in the present
 CC invention
 XX
 XX Sequence 17 BP; 6 A; 4 C; 6 G; 0 T; 1 U; 0 Other;
 Query Match 1.6%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 1.7e+02;

Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 271 CAGAAACACGGTGGC 287
 DB 1 CAGAGACACGGGAC 17
 RESULT 220
 ADF62659/C
 ID ADF62659 standard; DNA; 17 BP.
 XX
 AC ADF62659;
 XX 12-FEB-2004 (first entry)
 XX Human PCCP1 DNA fragment SEQ ID 4-directed probe - SEQ ID 563.
 DE
 KW chromatin organisation modifier; CHROMO domain; cytostatic; PCCP1;
 KW prostate cancer candidate protein 1; tumour; gene therapy; vaccine;
 KW human; ss; probe.
 XX
 OS Homo sapiens.
 XX
 PN WO2003050284-A1.
 XX 19-JUN-2003.
 PD
 XX 22-NOV-2002; 2002WO-US037506.
 PF
 XX 10-DEC-2001; 2001US-0339764P.
 PR (AMSH) AMERSHAM BIOSCIENCES SV CORP.
 XX
 PA Guo J;
 PI
 XX WPI; 2003-532916/50.
 DR
 XX New prostate cancer candidate protein 1 (PCCP1), useful for preparing a
 PT composition for treating or preventing a disorder associated with
 PT decreased or increased expression or activity of PCCP1 e.g., tumor.
 PT
 XX Example 2; SEQ ID NO 563; 164pp; English.
 PS
 CC The invention relates to a novel isolated nucleic acid that encodes a
 CC protein with a chromatin organisation modifier (CHROMO) domain. The
 CC polynucleotide of the invention demonstrates cytostatic activity and may
 CC be useful for preparing a composition for treating or preventing a
 CC disorder associated with decreased or increased expression or activity of
 CC PCCP1 (prostate cancer candidate protein 1), such as a tumour, as well as
 CC during gene therapy and vaccine production procedures. The current
 CC sequence is that of the human PCCP1-related DNA fragment SEQ ID 4-
 CC directed probe of the invention. Note: The current sequence is not shown
 CC within the specification per se but was retrieved from the WipoWeb
 CC database.
 XX
 SQ Sequence 17 BP; 8 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
 Query Match 1.6%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 1.7e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 635 TTGTGTGACTTTTTCAG 651
 DB 17 TTCTGAGACTTTTTCAG 1
 RESULT 221
 ADL51188/C
 ID ADL51188 standard; RNA; 17 BP.
 XX
 AC ADL51188;
 XX 20-MAY-2004 (first entry)
 DT

XX DE Human PTGDR substrate sequence #307.

XX KW antisense oligonucleotide; neurite growth inhibitor; NOGO;

KW prostaglandin D2 receptor; PTGDR; IkappaB kinase; IKK;

KW protein kinase PKR; cerebrovascular accident;

KW central nervous system injury; CNS injury; spinal cord injury; cancer;

KW melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis;

KW restenosis; asthma; Crohn's disease; diabetes; obesity;

KW autoimmune disease; lupus; multiple sclerosis; transplant rejection;

KW graft rejection; ischaemia; reperfusion; glomerulonephritis; sepsis;

KW allergy; asthma; allergic rhinitis; atopic dermatitis; human PTGDR;

KW substrate; ds.

XX OS Unidentified.

XX PN WO200281628-A2.

XX PD 17-OCT-2002.

XX PF 03-APR-2002; 2002WO-US010512.

XX PR 05-APR-2001; 2001US-00827395.

XX PR 29-MAY-2001; 2001US-0294412P.

XX PR 28-AUG-2001; 2001US-0315315P.

XX PA (RIBO-) RIBOZYME PHARM INC.

XX PI Blatt L, Chowrira B, Haerberli P, Mcswiggen J, Fosnaugh K;

XX WPI; 2003-058513/05.

XX PT Novel enzymatic nucleic acid that down-regulates expression of neurite

PT growth inhibitor receptor, prostaglandin D2 receptor, IkappaB kinase or

PT protein kinase PKR genes, for treating cancer and inflammatory disease.

XX PS Claim 161; SEQ ID NO 4721; 317pp; English.

XX CC The invention comprises nucleic acids (e.g. antisense oligonucleotides)

CC that down regulate the expression or inhibit the function of a receptor

CC for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR),

CC IkappaB kinase (IKK), or protein kinase PKR. The nucleic acids of the

CC invention are useful for treating: cerebrovascular accident, central

CC nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma,

CC lymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis,

CC restenosis or asthma), Crohn's disease, diabetes, obesity, autoimmune

CC disease, lupus, multiple sclerosis, transplant/graft rejection,

CC ischaemia/reperfusion injury, glomerulonephritis, sepsis, and allergic

CC conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The

CC nucleic acids of the invention are also useful for down-regulating the

CC expression of a target gene and as a diagnostic tool to examine genetic

CC drifts and mutations within diseased cells or to detect the presence of a

CC target RNA in a cell. The present RNA sequence represents a human PKR

CC substrate sequence.

XX SQ Sequence 17 BP; 1 A; 10 C; 3 G; 0 T; 3 U; 0 Other;

Query Match 1.6%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 1.7e+02;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 87 TGCTGAAGGCGGCGGC 103

DB 17 TGGCGAAGGCGGAGGC 1

RESULT 222

ADL51187/c

ID ADL51187 standard; RNA; 17 BP.

XX AC ADL51187;

XX DT 20-MAY-2004 (first entry)

XX DE Human PTGDR substrate sequence #306.

XX KW antisense oligonucleotide; neurite growth inhibitor; NOGO;

KW prostaglandin D2 receptor; PTGDR; IkappaB kinase; IKK;

KW protein kinase PKR; cerebrovascular accident;

KW central nervous system injury; CNS injury; spinal cord injury; cancer;

KW melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis;

KW restenosis; asthma; Crohn's disease; diabetes; obesity;

KW autoimmune disease; lupus; multiple sclerosis; transplant rejection;

KW graft rejection; ischaemia; reperfusion; glomerulonephritis; sepsis;

KW allergy; asthma; allergic rhinitis; atopic dermatitis; human PTGDR;

KW substrate; ds.

XX OS Unidentified.

XX PN WO200281628-A2.

XX PD 17-OCT-2002.

XX PF 03-APR-2002; 2002WO-US010512.

XX PR 05-APR-2001; 2001US-00827395.

XX PR 29-MAY-2001; 2001US-0294412P.

XX PR 28-AUG-2001; 2001US-0315315P.

XX PA (RIBO-) RIBOZYME PHARM INC.

XX PI Blatt L, Chowrira B, Haerberli P, Mcswiggen J, Fosnaugh K;

XX WPI; 2003-058513/05.

XX PT Novel enzymatic nucleic acid that down-regulates expression of neurite

PT growth inhibitor receptor, prostaglandin D2 receptor, IkappaB kinase or

PT protein kinase PKR genes, for treating cancer and inflammatory disease.

XX PS Claim 161; SEQ ID NO 4720; 317pp; English.

XX CC The invention comprises nucleic acids (e.g. antisense oligonucleotides)

CC that down regulate the expression or inhibit the function of a receptor

CC for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR),

CC IkappaB kinase (IKK), or protein kinase PKR. The nucleic acids of the

CC invention are useful for treating: cerebrovascular accident, central

CC nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma,

CC lymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis,

CC restenosis or asthma), Crohn's disease, diabetes, obesity, autoimmune

CC disease, lupus, multiple sclerosis, transplant/graft rejection,

CC ischaemia/reperfusion injury, glomerulonephritis, sepsis, and allergic

CC conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The

CC nucleic acids of the invention are also useful for down-regulating the

CC expression of a target gene and as a diagnostic tool to examine genetic

CC drifts and mutations within diseased cells or to detect the presence of a

CC target RNA in a cell. The present RNA sequence represents a human PKR

CC substrate sequence.

XX SQ Sequence 17 BP; 0 A; 9 C; 5 G; 0 T; 3 U; 0 Other;

Query Match 1.6%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 1.7e+02;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 91 GAAGGCGGACGCCGAC 107

DB 17 GAAGGCGGAGGCGCCG 1

RESULT 223

ADL51536/c

ID ADL51536 standard; RNA; 17 BP.

XX AC ADL51536;

XX DT 20-MAY-2004 (first entry)

XX DE Human PTGDR substrate sequence #655.

XX DE antisense oligonucleotide; neurite growth inhibitor; NOGO;

KW prostaglandin D2 receptor; PTGDR; IkappaB kinase; IKK;

KW protein kinase PKR; cerebrovascular accident;

KW central nervous system injury; CNS injury; spinal cord injury; cancer;

KW melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis;

KW restenosis; asthma; Crohn's disease; diabetes; obesity;

KW autoimmune disease; lupus; multiple sclerosis; transplant rejection;

KW graft rejection; ischaemia; reperfusion; glomerulonephritis; sepsis;

KW allergy; asthma; allergic rhinitis; atopic dermatitis; human PTGDR;

KW substrate; ds.

XX OS Unidentified.

XX OS WO200281628-A2.

PN 17-OCT-2002.

XX 03-APR-2002; 2002WO-US010512.

XX 05-APR-2001; 2001US-00827395.

PR 29-MAY-2001; 2001US-0294412P.

PR 28-AUG-2001; 2001US-0315315P.

XX (RIBO-) RIBOZYME PHARM INC.

PA Blatt L, Chowira B, Haerberli P, Mcswiggen J, Fosnaugh K;

XX WPI; 2003-058513/05.

XX Novel enzymatic nucleic acid that down-regulates expression of neurite

PT growth inhibitor receptor, prostaglandin D2 receptor, IkappaB kinase or

PT protein kinase PKR genes, for treating cancer and inflammatory disease.

XX Claim 161; SEQ ID NO 5069; 317bp; English.

XX The invention comprises nucleic acids (e.g. antisense oligonucleotides)

CC that down regulate the expression or inhibit the function of a receptor

CC for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR),

CC IkappaB kinase (IKK), or protein kinase PKR. The nucleic acids of the

CC invention are useful for treating: cerebrovascular accident, central

CC nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma,

CC lymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis,

CC restenosis or asthma), Crohn's disease, diabetes, obesity, autoimmune

CC disease, lupus, multiple sclerosis, transplant/graft rejection,

CC ischaemia/reperfusion injury, glomerulonephritis, sepsis, and allergic

CC conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The

CC nucleic acids of the invention are also useful for down-regulating the

CC expression of a target gene and as a diagnostic tool to examine genetic

CC drifts and mutations within diseased cells or to detect the presence of a

CC target RNA in a cell. The present RNA sequence represents a human PKR

CC substrate sequence.

XX Sequence 17 BP; 0 A; 9 C; 5 G; 0 T; 3 U; 0 Other;

XX Query Match 1.6%; Score 13.8; DB 1; Length 17;

XX Best Local Similarity 88.2%; Pred. No. 1.7e+02;

XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 89 CTGAGGCGGACGGCCC 105

DB 17 CGGAGGCGGACGGCCC 1

RESULT 224

ADI85511

ID ADI85511 standard; RNA; 17 BP.

XX AC ADI85511;

XX 03-JUN-2004 (first entry)

XX HCV DNazyme substrate sequence #2757.

XX ss; enzymatic nucleic acid; RNA cleavage; hepatitis C virus; HCV;

KW HCV infection; type I interferon; DNazyme.

XX Hepatitis C virus.

XX US2003125270-A1.

XX 03-JUL-2003.

XX 18-DEC-2000; 2000US-00740332.

XX 18-DEC-2000; 2000US-00740332.

XX (BLAT/) BLATT L.

PA (MCSW/) MCSWIGGEN J.

PA (ROBE/) ROBERTS E.

PA (PAVC/) PAVCO P A.

PA (MACE/) MACEJACK D.

XX Blatt L, Mcswiggen J, Roberts E, Pavco PA, Macejack D;

PI WPI; 2004-031273/03.

XX Enzymatic nucleic acid molecules which specifically cleave RNA derived

PT from hepatitis C virus (HCV), useful for the treatment of HCV infections,

PT especially in combination with type I interferon therapy.

XX Claim 1; SEQ ID NO 2757; 198pp; English.

XX The invention relates to an enzymatic nucleic acid molecule which

CC specifically cleaves RNA derived from hepatitis C virus (HCV), in which

CC the binding arms of the enzymatic nucleic acid molecule comprises

CC sequences complementary to any of the defined substrate sequences given

CC in the specification. The nucleic acid molecule may be administered for

CC the treatment of HCV infections, especially in combination with type I

CC interferons. The present sequence represents a HCV DNazyme substrate

CC sequence.

XX Sequence 17 BP; 6 A; 4 C; 6 G; 0 T; 1 U; 0 Other;

XX Query Match 1.6%; Score 13.8; DB 1; Length 17;

XX Best Local Similarity 82.4%; Pred. No. 1.7e+02;

XX Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 271 CAGAAACACGGTGGCC 287

DB 1 CAGAAACACGGTGGCC 17

RESULT 225

ACN72058

ID ACN72058 standard; DNA; 17 BP.

XX ACN72058;

XX 02-DEC-2004 (first entry)

XX Human GDMPLP-1 probe SEQ ID NO:8960.

XX Human; ss; probe; myosin-like protein-1; hGDMPLP-1;

KW hGDMPLP-1 agonist hGDMPLP antagonist; hGDMPLP inhibitor; heart disorder;

KW skeletal muscle function.

XX Homo sapiens.

XX US2004137589-A1.

XX 15-JUL-2004.

XX 26-NOV-2003; 2003US-00723361.

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XX 26-MAY-2000; 2000US-0207456P.
PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 05-FEB-2001; 2001US-0266860P.
PR 25-MAY-2001; 2001US-00866108.
XX
XX (GUY/) GU Y.
PA (JIYI/) JI Y.
PA (PENN/) PENN S G.
PA (HANZ/) HANZEL D K.
PA (RANK/) RANK D.
PA (CHEN/) CHEN W.
PA (SHAN/) SHANNON M E.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;
PI WPI; 2004-533378/51.
XX
XX Novel myosin-like protein-1, useful for treating or preventing disorder
PT associated with decreased expression or activity of human genome-derived
PT myosin-like protein-1 such as disorder of heart and/or skeletal muscle
PT function.
XX
XX Disclosure; SEQ ID NO 8960; Opp; English.
XX
XX The invention relates to a novel polypeptide (I) comprising a sequence
CC (S1) of myosin-like protein-1 (hGDMLP-1) having 2568 amino acids fully
CC defined in the specification, a fragment of at least 8 amino acids of
CC (S1), 95% deviation from (S1) which are conservative substitutions, and
CC 65% identity to (S1). A polypeptide of the invention acts as an agonist or
CC antagonist of hGDMLP-1, or as an inhibitor of hGDMLP-1 activity. A
CC pharmaceutical composition of the invention is useful for treating or
CC preventing a disorder associated with decreased expression or activity of
CC hGDMLP-1, such as a disorder of heart and/or skeletal muscle function.
CC The present sequence represents a 17-mer nucleotide, used in the
CC invention for scanning the sequence represented in ACN63103
XX
XX Query Match 1.6%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.7e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
SQ Sequence 17 BP; 5 A; 4 C; 6 G; 2 T; 0 U; 0 Other;

QY 183 CTGAAGCCCTGCATGGA 199
DB 1 CTGAAGCCGCACATGGA 17
|||||
AAAF50921
ID AAF50921 standard; DNA; 15 BP.
XX
XX AAF50921;
AC
XX 30-MAR-2001 (first entry)
DT
XX IGF-I oligonucleotide #1881.
DE
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX

KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
XX
XX Homo sapiens.
XX WO200078341-A1.
PN 28-DEC-2000.
XX
XX 21-JUN-2000; 2000WO-AU000693.
PP
XX 21-JUN-1999; 99US-0140345P.
PR
XX (MURD-) MURDOCH CHILDRENS RES INST.
PA
XX Wraight CJ, Werther GA, Edmondson SR;
PI WPI; 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
XX Example 8; Page 73; 201pp; English.
XX
XX The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
XX Sequence 15 BP; 2 A; 5 C; 3 G; 5 T; 0 U; 0 Other;
SQ
Query Match 1.5%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 1.6e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 531 CATTCCCTTGGATGT 545
DB 1 CATTCCCTTGGAGCT 15
|||||
AAAF46599
ID AAF46599 standard; DNA; 15 BP.
XX
XX AAF46599;
AC
XX 30-MAR-2001 (first entry)
DT
XX IGFBP3 oligonucleotide #19.
DE
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1-receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;

```

KW neovascular condition of the retina; ss.
 XX Homo sapiens.
 OS WO200078341-A1.
 XX 28-DEC-2000.
 XX 21-JUN-2000; 2000WO-AU000693.
 XX 21-JUN-1999; 99US-0140345P.
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 XX Wright CJ, Werther GA, Edmondson SR;
 XX WPI; 2001-041421/05.
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 PT UV (ultra-violet) treatment (optional) and an antisenese nucleic acid that
 PT inhibits or reduces growth factor mediated cell proliferation and/or
 PT inflammation.
 XX Example 7; Page 44; 201pp; English.
 XX The present invention relates to a method for ameliorating the effects of
 CC skin disorders. The method comprises contacting the skin with an
 CC antisenese oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present invention is an
 CC oligonucleotide which can be used to design the antisenese
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,
 CC ichthyosis, pityriasis, ruba, pilaris, serborrheoa, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic
 CC disease, kidney disease, hyperproliferation of the inside of blood
 CC vessels or any other hyperplasia
 XX Sequence 15 BP; 2 A; 6 C; 3 G; 4 T; 0 U; 0 Other;
 SQ Query Match 1.5%; Score 13.4; DB 1; Length 15;
 Best Local Similarity 93.3%; Pred. No. 1.6e+02;
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 190 CCTGCATGGATTCCA 204
 Db ||||| ||||| |||||
 1 CCTGCCTGGATTCCA 15
 RESULT 228
 ADO43607
 ID ADO43607 standard; DNA; 15 BP.
 XX ADO43607;
 XX 29-JUL-2004 (first entry)
 DT Mutant DNA fragment of SOD-1 where L26S mutation occurs.
 DE DNAzyme; dominantly inherited disorder; achondroplasia;
 XX amytrophic lateral sclerosis; Marfan syndrome; hypercholesterolemia;
 KW osteogenesis imperfecta; SCCMS; ss; superoxide disutase; SOD-1.
 XX Homo sapiens.
 OS WO2004038019-A2.
 XX 06-MAY-2004.
 PD 23-OCT-2003; 2003WO-GB004614.
 XX

XX 23-OCT-2002; 2002GB-00024663.
 XX (ISIS-) ISIS INNOVATION LTD.
 XX Beeson D, Wood M, Abdelgary A;
 XX WPI; 2004-365523/34.
 XX New DNAzyme that cleaves mutant polynucleotides, useful in treating a
 PT dominantly inherited disorder associated with a mutant allele, such as
 PT achondroplasia, amytrophic lateral sclerosis, Marfan syndrome and
 PT hypercholesterolemia.
 XX Disclosure; Page 8; 24pp; English.
 XX The specification describes a DNAzyme which selectively cleaves a mutant
 CC polynucleotide by cleaving at a site remote from the mutation site. The
 CC DNAzyme binds selectively to a mutant allele or its expressed product,
 CC and comprises a central catalytic motif (Helix II) and two flanking
 CC regions (helix I and III) where at least one of the flanking regions has
 CC a polynucleotide sequence complementary to a region that includes the
 CC mutation in the mutant allele or to that of the expressed product. Both
 CC flanking regions are complementary to mutated regions of the mutant
 CC allele or the expressed product. The complement of the mutation is 2 or 3
 CC nucleotides upstream or downstream of the site of cleavage, preferably in
 CC helix I. Helix I and III are of different lengths, where helix I is
 CC shorter than helix III, and their length is 21-7 or 15-8 nucleotides.
 CC Helix I preferably comprises 9 nucleotides and helix III 13 nucleotides.
 CC At least one of the flanking regions comprises ribonucleic acid. The
 CC DNAzyme further comprises a stem-loop structure at either or both
 CC terminus. The DNAzyme is useful in therapy, in particular for the
 CC manufacture of a medicament for the treatment of a disorder associated
 CC with a mutant allele in a patient, where the DNAzyme comprises a central
 CC catalytic motif and two flanking substrate-binding regions, and where at
 CC least one flanking region binds at the site of mutation in the mutant
 CC allele or its expressed product and the catalytic motif cleaves at a site
 CC remote from the site of mutation. The disorder is a dominantly inherited
 CC disorder, such as achondroplasia, amytrophic lateral sclerosis with SOD1
 CC mutation, Marfan syndrome, hypercholesterolemia, osteogenesis imperfecta
 CC and SCCMS. ADO43606-ADO43607 represent the wild type and mutant DNA
 CC fragments, respectively, of the Cu/Zn superoxide disutase (SOD-1) gene
 CC where a L26S mutation occurs, and causes amytrophic lateral sclerosis.
 CC These sequences are suitable for the design of DNAzymes of the invention
 CC (see ADO43608).
 XX Sequence 15 BP; 5 A; 3 C; 5 G; 2 T; 0 U; 0 Other;
 SQ Query Match 1.5%; Score 13.4; DB 1; Length 15;
 Best Local Similarity 93.3%; Pred. No. 1.6e+02;
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 437 GATGACTTGGCAAA 451
 Db ||||| ||||| |||||
 1 GATGACTCGGCAAA 15
 RESULT 229
 ADO43602
 ID ADO43602 standard; DNA; 15 BP.
 XX ADO43602;
 XX 29-JUL-2004 (first entry)
 DT DNA fragment from DNAzyme for SOD-1 G12R mutation.
 DE DNAzyme; dominantly inherited disorder; achondroplasia;
 KW amytrophic lateral sclerosis; Marfan syndrome; hypercholesterolemia;
 KW osteogenesis imperfecta; SCCMS; ss; superoxide disutase; SOD-1.
 XX Homo sapiens.
 OS

```

PN WO2004038019-A2.
XX
PD 06-MAY-2004.
XX
PF 23-OCT-2003; 2003WO-GB004614.
XX
XX 23-OCT-2002; 2002GB-00024663.
XX
XX (ISIS-) ISIS INNOVATION LTD.
XX
XX Beeson D, Wood M, Abdelgany A;
XX
XX WPI; 2004-365523/34.
XX
XX New DNzyme that cleaves mutant polynucleotides, useful in treating a
PT dominantly inherited disorder associated with a mutant allele, such as
PT achondroplasia, amyotrophic lateral sclerosis, Marfan syndrome and
PT hypercholesterolemia.
XX
XX Disclosure; Page 7; 24pp; English.
XX
XX The specification describes a DNzyme which selectively cleaves a mutant
CC polynucleotide by cleaving at a site remote from the mutation site. The
CC DNzyme binds selectively to a mutant allele or its expressed product,
CC and comprises a central catalytic motif (Helix II) and two flanking
CC regions (Helix I and III) where at least one of the flanking regions has
CC a polynucleotide sequence complementary to a region that includes the
CC mutation in the mutant allele or to that of the expressed product. Both
CC flanking regions are complementary to mutated regions of the mutant
CC allele or the expressed product. The complement of the mutation is 2 or 3
CC nucleotides upstream or downstream of the site of cleavage, preferably in
CC Helix I. Helix I and III are of different lengths, where Helix I is
CC shorter than Helix III, and their length is 21-7 or 15-8 nucleotides.
CC Helix I preferably comprises 9 nucleotides and Helix III 13 nucleotides.
CC At least one of the flanking regions comprises ribonucleic acid. The
CC DNzyme further comprises a stem-loop structure at either or both
CC termini. The DNzyme is useful in therapy, in particular for the
CC manufacture of a medicament for the treatment of a disorder associated
CC with a mutant allele in a patient, where the DNzyme comprises a central
CC catalytic motif and two flanking substrate-binding regions, and where at
CC least one flanking region binds at the site of mutation in the mutant
CC allele or its expressed product and the catalytic motif cleaves at a site
CC remote from the site of mutation. The disorder is a dominantly inherited
CC disorder, such as achondroplasia, amyotrophic lateral sclerosis with SOD1
CC mutation, Marfan syndrome, hypercholesterolemia, osteogenesis imperfecta
CC and SCCMS. The present sequence represents a fragment from a DNzyme for
CC the Cu/Zn superoxide dismutase (SOD-1) gene where a G12R mutation occurs
CC and causes amyotrophic lateral sclerosis.
XX
XX
SQ Sequence 15 BP; 2 A; 6 C; 6 G; 1 T; 0 U; 0 Other;
Query Match 1.5%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 1.6e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 95 GCGCAGCGCCCACTG 109
DB 1 GCGCAGCGCCCACTG 15
RESULT 230
AAS15510/C
ID AAS15510 standard; DNA; 16 BP.
XX
XX AAS15510;
XX
XX 16-JAN-2002 (first entry)
XX
XX N-acetyltransferase 2 (NAT2) G191A SNP hybridisation probe #7.
XX
XX N-acetyltransferase 2; NAT2; human; genotyping; SNP; G191A; probe;
XX single nucleotide polymorphism; ss.
XX
OS Synthetic.
XX
XX Key Location/Qualifiers
FT variation /tag= a
FT /standard_name= "Single nucleotide polymorphism"
FT variation /tag= b
FT /standard_name= "Single nucleotide polymorphism"
XX
XX WO200166804-A2.
XX
XX 13-SEP-2001.
XX
XX 09-MAR-2001; 2001WO-US007775.
XX
XX 09-MAR-2000; 2000US-00521983.
XX
XX 10-JUL-2000; 2000US-00613517.
XX
XX (PROT-) PROTOGENE LAB INC.
XX
XX Cronin MT, Frueh F, Brennan TM;
XX
XX WPI; 2001-616243/71.
XX
XX Determining sequence variation in, or monitoring expression of genes in
PT target nucleic acid for high-throughput genotyping of (un)known
PT polymorphisms/mutations, comprises hybridization pattern differences
PT between target and probe sequences.
XX
XX Example 5; Page 35; 60pp; English.
XX
XX The invention relates to a method of simultaneously determining the
CC presence of 2 or more sequence variations in target nucleic acids, or
CC simultaneously monitoring expression of 2 or more genes. The method
CC comprises determining differences in hybridisation between the target
CC nucleic acid and immobilised probes, where differences in hybridisation
CC between indicates sequence variations or transcription levels. The method
CC is used for simultaneously determining the presence or absence of two or
CC more sequence variations in target nucleic acids or simultaneously
CC monitoring expression of two or more genes in target nucleic acids. The
CC methods are applicable to high-throughput genotyping of known and unknown
CC polymorphisms and mutations. The method maximises the information yield
CC of hybridisation-based array applications by increasing the number of
CC informative array-immobilised polynucleotide probes. The present sequence
CC represents N-acetyltransferase 2 (NAT2) G191A single nucleotide
CC polymorphism (SNP) hybridisation probe #7
XX
XX Sequence 16 BP; 1 A; 6 C; 3 G; 6 T; 0 U; 0 Other;
Query Match 1.5%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.7e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 272 AGAAACACGGTGGG 286
DB 15 AGAAACACGGTGGG 1
RESULT 231
ABT13505/C
ID ABT13505 standard; DNA; 16 BP.
XX
XX ABT13505;
XX
XX 07-FEB-2003 (first entry)
XX
XX Liver regeneration-related gene panel PCR primer #33.
XX
XX PCR; primer; ss; liver regeneration; gene panel; expression profile;
XX drug screening; drug development; hepatitis; liver transplantation.
XX
XX Unidentified.

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XX WO200277222-A1.
 XX 03-OCT-2002.
 XX
 XX 13-MAR-2002; 2002WO-JP002372.
 XX
 XX 13-MAR-2001; 2001JP-00070940.
 XX
 XX (AJIN) AJINOMOTO CO INC.
 XX
 XX Yokoya F, Okutsu T, Mori M, Takahara Y, Fukuda H, Aburatani H;
 XX Sonaka I;
 XX WPI; 2003-018922/01.
 XX
 XX Gene panel participating in liver regeneration, applicable in providing
 XX expression data, diagnosis and development of drugs for promoting liver
 XX regeneration e.g. after transplantation or removal of liver during
 XX cancer.
 XX
 XX Claim 19; Page 55; 101pp; Japanese.
 XX
 XX The invention comprises a gene panel constructed from the expression
 XX profile of known genes which show a change in expression level between
 XX normal liver cells and liver cells under regeneration. The gene panel is
 XX useful for providing expression data and screening/development of drugs
 XX for liver regeneration (e.g. when treating hepatitis, after
 XX transplantation or removal of the liver during cancer or hepatitis
 XX therapy). The present DNA sequence represents a PCR primer used in the
 XX invention
 XX
 XX Sequence 16 BP; 3 A; 5 C; 4 G; 4 T; 0 U; 0 Other;
 XX
 XX Query Match 1.5%; Score 13.4; DB 1; Length 16;
 XX Best Local Similarity 93.3%; Pred. No. 1.7e+02;
 XX Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 XX
 XX QY 310 TGGAGACTTGGGCAA 324
 XX 15 TGGAGACTTGGGCAA 1
 XX
 XX RESULT 232
 XX ABZ68236
 XX ID ABZ68236 standard; DNA; 16 BP.
 XX
 XX AC ABZ68236;
 XX
 XX DT 07-APR-2003 (first entry)
 XX
 XX DE Probe/PCR primer for conserved region of the spoOA gene of bacteria.
 XX
 XX KW spoOA gene; spore-forming bacteria; Bacillus; Clostridium;
 XX sporulation gene; paper product; paper making; probe; PCR; primer; ss.
 XX
 XX OS Synthetic.
 XX
 XX PN WO200292853-A1.
 XX
 XX PD 21-NOV-2002.
 XX
 XX PF 15-MAY-2001; 2001WO-US015793.
 XX
 XX PR 15-MAY-2001; 2001WO-US015793.
 XX
 XX PA (HERC) HERCULES INC.
 XX
 XX PI Breen AW, Singleton FL;
 XX
 XX DR WPI; 2003-175079/17.
 XX
 XX Testing a sample for the presence of spore forming bacteria, by combining

PT two primers with sample, hybridizing the primer to the target spore
 PT forming bacterial spoOA gene, and detecting the hybridized product.
 XX
 XX Claim 5; Page 16; 40pp; English.
 XX
 XX PCR primers and probes ABZ68235-42 are based on highly conserved regions
 XX of the spoOA gene of the spore-forming bacteria Bacillus and Clostridium.
 XX They are used for detecting the presence of spore-forming bacteria in a
 XX sample. The probes are useful for testing a sample comprising air, soil,
 XX water, blood, faecal matter, starch, protein or an epichlorohydrin
 XX reaction product for the presence of spore forming bacteria. They are
 XX useful for the systematic identification of sporulation genes in spore-
 XX forming bacteria. They are useful for detecting spore forming bacteria
 XX such as Bacillus megaterium, B. licheniformis or B. pertussis in paper
 XX products and paper making processes, protein-containing samples, and
 XX medical diagnostic applications
 XX
 XX SQ Sequence 16 BP; 8 A; 2 C; 3 G; 3 T; 0 U; 0 Other;
 XX
 XX Query Match 1.5%; Score 13.4; DB 1; Length 16;
 XX Best Local Similarity 93.3%; Pred. No. 1.7e+02;
 XX Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 XX
 XX QY 429 AAAAAGCAGTGA 443
 XX 2 AAAAAGCAGTGA 16
 XX
 XX RESULT 233
 XX ADJ92751
 XX ID ADJ92751 standard; DNA; 16 BP.
 XX
 XX AC ADJ92751;
 XX
 XX DT 06-MAY-2004 (first entry)
 XX
 XX DE Bacillus cereus spoOA gene amplifying forward PCR primer #1.
 XX
 XX KW Sporulation gene; spore forming bacteria; SFB; paper pulp; spoOA gene;
 XX PCR; primer; ss.
 XX
 XX OS Bacillus cereus.
 XX
 XX PN US2004014122-A1.
 XX
 XX PD 22-JAN-2004.
 XX
 XX PF 27-JUN-2003; 2003US-00608062.
 XX
 XX PR 27-MAY-1998; 98US-00085359.
 XX 20-JUL-1999; 99US-00356677.
 XX PR 27-JAN-2000; 2000US-00492135.
 XX
 XX PA (BREE/) BREEN A W.
 XX (SING/) SINGLETON F L.
 XX
 XX PI Breen AW, Singleton FL;
 XX
 XX DR WPI; 2004-098822/10.
 XX
 XX PT Novel primer pair useful for identifying sporulation genes in spore
 XX forming bacteria and detecting the presence of spore forming bacteria in
 XX samples e.g. paper pulp.
 XX
 XX PS Claim 1; SEQ ID NO 2; 19pp; English.
 XX
 XX The invention relates to methods for the systematic identification of
 XX sporulation genes in spore forming bacteria (SFB). The method is useful
 XX for identifying sporulation genes in spore forming bacteria. It is also
 XX useful for detecting the presence of SFB in sample e.g., paper pulp. The
 XX present sequence is a PCR primer used for amplifying spore forming
 XX bacteria spoOA gene. This sequence is used to illustrate the method of
 XX the invention.

XX SQ Sequence 16 BP; 8 A; 2 C; 3 G; 3 T; 0 U; 0 Other;
 Query Match 1.5%; Score 13.4; DB 1; Length 16;
 Best Local Similarity 93.3%; Pred. No. 1.7e+02;
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 429 AAAAGCAGTGACT 443
 |||||
 Db 2 AAAAGCAGTTGACT 16
 RESULT 234
 AAC88558
 ID AAC88558 standard; RNA; 13 BP.
 XX AC AAC88558;
 XX DT 02-MAR-2001 (first entry)
 XX DE Anti-SOD-1 295 coding sequence fragment.
 XX KW Ribozyme; retinal degradation; retinal disease; learning; memory;
 XX KM amyotrophic lateral sclerosis; tumour suppression; ss.
 XX OS Mus sp.
 XX PN WO200066780-A2.
 XX PD 09-NOV-2000.
 XX PF 28-APR-2000; 2000WO-US011509.
 XX PR 30-APR-1999; 99US-0131942P.
 XX PA (UYFL) UNIV FLORIDA.
 XX PI Lewin AS, Muzyczka N, Hauswirth WW, Teschendorf C, Burger C;
 XX DR WPI; 2000-687548/67.
 XX PT Novel methods for identifying genes with selected functions comprising
 XX PT contacting genes with a library of ribozymes, useful for identifying
 XX PT genes involved in, e.g. retinal disease, learning or memory and tumor
 XX PT suppression.
 XX PS Claim 16; Fig 36; 11pp; English.
 XX CC The present invention relates to a method for identifying a gene with a
 CC selected function comprising contacting genes with a library of ribozymes
 CC and identifying at least 1 ribozyme that alters the selected function of
 CC the gene. The present sequence is a target sequence used in the present
 CC invention. The methods (and ribozymes) are useful for identifying novel
 CC genes involved in retinal degradation, retinal disease, learning or
 CC memory, amyotrophic lateral sclerosis or tumour suppression, and for
 CC producing non-human animal models of diseases
 XX SQ Sequence 13 BP; 3 A; 1 C; 3 G; 0 T; 6 U; 0 Other;
 Query Match 1.5%; Score 13; DB 1; Length 13;
 Best Local Similarity 53.8%; Pred. No. 1.5e+02;
 Matches 7; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
 QY 354 ATGTGCTATTGA 366
 |||||
 Db 1 AUGUGUCUAUGA 13
 RESULT 235
 AAC88562
 ID AAC88562 standard; RNA; 13 BP.
 XX AC AAC88562;

XX DT 02-MAR-2001 (first entry)
 XX DE Anti-SOD-1 429 coding sequence fragment.
 XX KW Ribozyme; retinal degradation; retinal disease; learning; memory;
 XX KM amyotrophic lateral sclerosis; tumour suppression; ss.
 XX OS Mus sp.
 XX PN WO200066780-A2.
 XX PD 09-NOV-2000.
 XX PF 28-APR-2000; 2000WO-US011509.
 XX PR 30-APR-1999; 99US-0131942P.
 XX PA (UYFL) UNIV FLORIDA.
 XX PI Lewin AS, Muzyczka N, Hauswirth WW, Teschendorf C, Burger C;
 XX DR WPI; 2000-687548/67.
 XX PT Novel methods for identifying genes with selected functions comprising
 XX PT contacting genes with a library of ribozymes, useful for identifying
 XX PT genes involved in, e.g. retinal disease, learning or memory and tumor
 XX PT suppression.
 XX PS Claim 16; Fig 36; 11pp; English.
 XX CC The present invention relates to a method for identifying a gene with a
 CC selected function comprising contacting genes with a library of ribozymes
 CC and identifying at least 1 ribozyme that alters the selected function of
 CC the gene. The present sequence is a target sequence used in the present
 CC invention. The methods (and ribozymes) are useful for identifying novel
 CC genes involved in retinal degradation, retinal disease, learning or
 CC memory, amyotrophic lateral sclerosis or tumour suppression, and for
 CC producing non-human animal models of diseases
 XX SQ Sequence 13 BP; 2 A; 1 C; 6 G; 0 T; 4 U; 0 Other;
 Query Match 1.5%; Score 13; DB 1; Length 13;
 Best Local Similarity 69.2%; Pred. No. 1.5e+02;
 Matches 9; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 488 GGAAGTCGTTTG 500
 |||||
 Db 1 GGAAGUCGUUGG 13
 RESULT 236
 AAC88560
 ID AAC88560 standard; RNA; 13 BP.
 XX AC AAC88560;
 XX DT 02-MAR-2001 (first entry)
 XX DE Anti-SOD-1 359 coding sequence fragment.
 XX KW Ribozyme; retinal degradation; retinal disease; learning; memory;
 XX KM amyotrophic lateral sclerosis; tumour suppression; ss.
 XX OS Mus sp.
 XX PN WO200066780-A2.
 XX PD 09-NOV-2000.
 XX PF 28-APR-2000; 2000WO-US011509.
 XX PR 30-APR-1999; 99US-0131942P.

XX (UYFL) UNIV FLORIDA.
 XX Lewin AS, Muzyczka N, Hauswirth WW, Teschendorf C, Burger C;
 XX WPI; 2000-687548/67.
 XX Novel methods for identifying genes with selected functions comprising
 PT contacting genes with a library of ribozymes, useful for identifying
 PT genes involved in, e.g. retinal disease, learning or memory and tumor
 PT suppression.
 XX Claim 16; Fig 36; 11lpp; English.
 XX The present invention relates to a method for identifying a gene with a
 CC selected function comprising contacting genes with a library of ribozymes
 CC and identifying at least 1 ribozyme that alters the selected function of
 CC the gene. The present sequence is a target sequence used in the present
 CC invention. The methods (and ribozymes) are useful for identifying novel
 CC genes involved in retinal degradation, retinal disease, learning or
 CC memory, amyotrophic lateral sclerosis or tumour suppression, and for
 CC producing non-human animal models of diseases
 XX Sequence 13 BP; 3 A; 2 C; 5 G; 0 T; 3 U; 0 Other;
 SQ Query Match 1.5%; Score 13; DB 1; Length 13;
 Best Local Similarity 76.9%; Pred. No. 1.5e+02;
 Matches 10; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 QY 418 GGTGGTCCATGAA 430
 DB 1 GGUGGUCCAUGAA 13
 RESULT 237
 AAC88556
 ID AAC88556 standard; RNA; 13 BP.
 AC AAC88556;
 XX 02-MAR-2001 (first entry)
 DE Anti-SOD-1 186 coding sequence fragment.
 XX Ribozyme; retinal degradation; retinal disease; learning; memory;
 KW amyotrophic lateral sclerosis; tumour suppression; ss.
 XX Mus sp.
 OS WO200066780-A2.
 PN 09-NOV-2000.
 PD 28-APR-2000; 2000WO-US011509.
 PF 30-APR-1999; 99US-0131942P.
 PR (UYFL) UNIV FLORIDA.
 PA Lewin AS, Muzyczka N, Hauswirth WW, Teschendorf C, Burger C;
 PI WPI; 2000-687548/67.
 XX Novel methods for identifying genes with selected functions comprising
 PT contacting genes with a library of ribozymes, useful for identifying
 PT genes involved in, e.g. retinal disease, learning or memory and tumor
 PT suppression.
 XX Claim 16; Fig 36; 11lpp; English.
 XX The present invention relates to a method for identifying a gene with a
 CC selected function comprising contacting genes with a library of ribozymes
 CC and identifying at least 1 ribozyme that alters the selected function of

CC the gene. The present sequence is a target sequence used in the present
 CC invention. The methods (and ribozymes) are useful for identifying novel
 CC genes involved in retinal degradation, retinal disease, learning or
 CC memory, amyotrophic lateral sclerosis or tumour suppression, and for
 CC producing non-human animal models of diseases
 XX Sequence 13 BP; 2 A; 5 C; 3 G; 0 T; 3 U; 0 Other;
 SQ Query Match 1.5%; Score 13; DB 1; Length 13;
 Best Local Similarity 76.9%; Pred. No. 1.5e+02;
 Matches 10; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 QY 245 GCAGTCTCTCACT 257
 DB 1 GCAGGUCCUACU 13
 RESULT 238
 ABF54653
 ID ABF54653 standard; DNA; 13 BP.
 XX ABF54653;
 AC ABF54653;
 XX 21-FEB-2002 (first entry)
 DT Oligonucleotide SEQ ID NO 154650 for detecting SNP TSC0039096.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 DE peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS WO200177384-A2.
 PN 18-OCT-2001.
 PD 06-APR-2001; 2001WO-IB000713.
 PF 07-APR-2000; 2000DE-01019173.
 PR (EPIG-) EPIGENOMICS AG.
 PA Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX Claim 1; SEQ ID NO 154650; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX Sequence 13 BP; 4 A; 4 C; 0 G; 5 T; 0 U; 0 Other;
 SQ Query Match 1.5%; Score 13; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 1.5e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 527 TAAACATTCCTT 539

XX	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW	central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS	Homo sapiens.
XX	
PN	WO200177384-A2.
XX	
PD	18-OCT-2001.
XX	
PF	06-APR-2001; 2001WO-IB000713.
XX	
PR	07-APR-2000; 2000DE-01019173.
XX	
PA	(EPIG-) EPIGENOMICS AG.
XX	
PI	Olek A, Piepenbrock C, Berlin K;
XX	
DR	WPI; 2001-657177/75.
XX	
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is
PT	designed to detect single-nucleotide polymorphisms and cytosine
PT	methylation status.
XX	
XX	Claim 1; SEQ ID NO 201017; 29pp + Sequence Listing; German.
PS	
XX	This invention describes novel oligonucleotide primers or peptide nucleic
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligomers are also used for detecting cell type differentiation. ABC000010
CC	-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC	represent the oligomers described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic format from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
XX	
SQ	Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 U; 0 Other;
	Query Match 1.5%; Score 13; DB 1; Length 13;
	Best Local Similarity. 100.0%; Pred. No. 1.5e+02;
	Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	215 TTGTGGAGATAATA 227
Db	1 TTGTGGAGATAATA 13
RESULT 241	
ABH01041/c	
ID	ABH01041 standard; DNA; 13 BP.
XX	
AC	ABH01041;
XX	
DT	22-FEB-2002 (first entry)
XX	
DE	Oligonucleotide SEQ ID NO 201018 for detecting SNP TSC0049445.
XX	
KW	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW	central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS	Homo sapiens.
XX	
PN	WO200177384-A2.
XX	
PD	18-OCT-2001.
XX	
PF	06-APR-2001; 2001WO-IB000713.
XX	

XX SQ Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 U; 0 Other;
Query Match 1.5%; Score 13; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 706 TGTATAGTTTAT 718
DB 1 TGTATAGTTTAT 13

RESULT 244
AA54605
ID AAX54605 standard; DNA; 15 BP.
XX
AC AAX54605;
XX
DT 05-JUL-1999 (first entry)
XX
DE Bosinophil peroxidase antisense oligonucleotide fragment.
XX
KW Antisense oligonucleotide; multiple target; antisense treatment;
KW impaired respiration; inflammation; lung disease;
KW pulmonary vasoconstriction; inflammation; allergic rhinitis;
KW acute asthma; allergy; asthma; pain; impeded respiration;
KW respiratory distress syndrome; pain; cystic fibrosis;
KW chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma;
KW colon cancer; breast cancer; lung cancer; pancreatic cancer;
KW hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
KW prostate cancer; ss.
XX
OS Synthetic.
XX
PN WO9913886-A1.
XX
PD 25-MAR-1999.
XX
PF 17-SEP-1998; 98WO-US019419.
XX
PR 17-SEP-1997; 97US-0059160P.
PR 09-JUN-1998; 98US-00093972.
XX
PA (UYEC-) UNIV EAST CAROLINA.
XX
PI Nyce JW;
XX
DR WPI; 1999-229400/19.
XX
PT New antisense oligonucleotides used in treatment of, e.g. pulmonary
PT vasoconstriction.
XX
PS Disclosure; Page 46; 120pp; English.
XX

The specification describes antisense oligonucleotides (AAX52869-X55271) directed against at least 2 mRNAs selected from target genes, coding and non-coding regions of RNAs corresponding to target genes, gene initiation codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides may be derived from sequences AAX55272-74. These multiple target oligonucleotides (specifically AAX55180-271) can be used for the antisense treatment of diseases and conditions. Typical diseases and conditions are those associated with impaired respiration and inflammation, including lung diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis, acute asthma, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, pulmonary vasoconstriction, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g. colon cancer, breast cancer, lung cancer, pancreatic cancer, hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as

CC well as all types of cancers which may metastasize or have metastasized
CC to the lungs, including breast and prostate cancer
XX
SQ Sequence 15 BP; 0 A; 2 C; 7 G; 6 T; 0 U; 0 Other;
Query Match 1.5%; Score 13; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 12 GGGTTTCCGTTG 24
DB 3 GGGTTTCCGTTG 15

RESULT 245
AAA34052
ID AAA34052 standard; DNA; 15 BP.
XX
AC AAA34052;
XX
DT 28-JUL-2000 (first entry)
XX
DE Human adenosine receptor related polynucleotide SEQ ID NO:1741.
XX
KW Human; adenosine receptor; low adenosine antisense oligonucleotide;
KW phosphorothioate; impaired respiration; inflammation; allergy;
KW allergic disease; bronchoconstriction; inhibitor; antiinflammatory;
KW antiallergic; antiasthmatic; cytosstatic; analgesic; impaired airway;
KW lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
KW respiratory distress syndrome; pain; cystic fibrosis; emphysema;
KW pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
KW cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
XX
OS Homo sapiens.
XX
PN WO200009525-A2.
XX
PD 24-FEB-2000.
XX
PF 03-AUG-1999; 99WO-US017712.
XX
PR 03-AUG-1998; 98US-0095212P.
XX
PA (UYEC-) UNIV EAST CAROLINA.
XX
PI Nyce JW;
XX
DR WPI; 2000-205971/18.
XX
PT New antisense oligonucleotides useful for treating e.g. pulmonary
PT vasoconstriction, inflammation, allergies, asthma, hypertension,
PT bronchitis, emphysema, respiratory distress syndrome, ischemia or
PT cancers.
XX
PS Disclosure; Page 481; 1343pp; English.
XX

The present invention describes a new composition comprising an antisense oligonucleotide (ON) with low adenosine (up to 15%), which targets nucleic acids involved in bronchoconstriction, allergies, and/or inflammation. The ON can have antiinflammatory, antiallergic, antiasthmatic, cytosstatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, impaired airways, including lung disease and diseases whose secondary effects afflict the lungs of a subject. They can be used for treating e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukemias, lymphomas, carcinomas, and cancers which may metastasize to the lungs, including breast and prostate cancer. The reduction of the adenosine content of ONs reduces side effects. The A-containing ONs break down with the release of deoxyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA32313 to AAA35312 represent the

CC immunoglobulins and antibodies, antibody receptors, cytokines and
CC chemokines, endogenously produced specific and non-specific enzymes,
CC binding proteins, adhesion molecules and their receptors, cytokine and
CC chemokine receptors, adenosine receptors, bradykinin receptors, central
CC nervous system (CNS) and peripheral nervous and non-nervous system
CC receptors, CNS and peripheral nervous and non-nervous system peptide
CC transmitters, defensins, growth factors, vasoactive peptides and
CC receptors, binding proteins and malignancy associated proteins. The
CC antisense oligonucleotides may be used in this way to treat disorders
CC including respiratory obstruction (especially pulmonary obstruction
CC and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or
CC surfactant hypoproduction which are associated with a disease or
CC condition selected from pulmonary vasoconstriction, inflammation,
CC allergies, asthma, impeded respiration, respiratory distress syndrome
CC (ARDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary
CC hypertension, emphysema, chronic obstructive pulmonary disease (COPD),
CC pulmonary transplantation rejection, pulmonary infections, bronchitis,
CC and/or cancer. AAF18434 to AAF21543 represent human polynucleotide
CC fragments and antisense oligonucleotides used in the exemplification of
CC the present invention

XX
XX SQ Sequence 15 BP; 0 A; 2 C; 7 G; 6 T; 0 U; 0 Other;

Query Match 1.5%; Score 13; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.7e-02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 12 GGGGTTTCGGTTG 24
|||||
Db 3 GGGGTTTCGGTTG 15

RESULT 247

AAF70268

ID AAF70268 standard; DNA; 15 BP.

XX
AC AAF70268;
DT 20-APR-2001 (first entry)
XX
DE Human DRD2 allele specific oligonucleotide probe SEQ ID NO:11.
XX
KW Human; dopamine receptor D2; DRD2; polymorphism; allele specific;
KW drug target isogene; detection; single nucleotide polymorphism; SNP;
KW genotype; schizophrenia; Parkinson's disease; myoclonus dystonia; MD;
KW probe; PCR primer; ss.
XX
OS Homo sapiens.
XX
XX WO200105932-A1.
XX
XX 25-JAN-2001.
XX
XX 19-JUL-2000; 2000WO-US019644.
XX
XX 19-JUL-1999; 99US-0144493P.
XX
XX (GENA-) GENAISSANCE PHARM INC.
XX
XX Chew A, Denton RR, Duda A, Nandabalan K, Stephens JC;
XX WFI; 2001-091967/10.
XX
XX Polynucleotides comprising single nucleotide polymorphisms in the human
XX dopamine receptor D2, useful for detecting mutations associated with,
XX e.g. schizophrenia, Parkinson's and myoclonus dystonia.
XX
XX Claim 15; Page 21; 135pp; English.

XX
XX The present invention describes polynucleotides comprising single
XX nucleotide polymorphisms (SNPs) in the human dopamine receptor D2 (DRD2).
XX The polynucleotides may be used in assays to detect and characterise
XX polymorphisms in DRD2 that affect its expression and activity and are

CC involved in disorders such as schizophrenia, parkinson's and myoclonus
 CC dystonia (MD). This information would be useful for studying the
 CC biological function of DRD2 as well as in identifying drugs targeting
 CC this protein for the treatment of disorders related to its abnormal
 CC expression or function. Polymorphisms in the DRD2 gene affect the
 CC advancement of active and functional polypeptides. Therefore it is
 CC advantageous to detect polymorphisms in the DRD2 gene and how those
 CC polymorphisms are combined in different copies of the gene. AAF70261 to
 CC AAF70308 represent human DRD2 allele specific oligonucleotide probes, and
 CC AAF70309 to AAF70404 represent human DRD2 allele specific oligonucleotide
 CC primers which are used in the detection of DRD2 polymorphisms. AAF70405
 CC to AAF70452 represent oligonucleotide primers for the detection of human
 CC DRD2 polymorphisms which are given in the exemplification of the present
 CC invention. AAF70453 to AAF70538 represent PCR primers for the human DRD2
 CC gene which are used in examples from the present invention
 XX
 XX Sequence 15 BP; 4 A; 3 C; 2 G; 6 T; 0 U; 0 Other;

Query Match 1.5%; Score 13; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 737 CTGTTTCAATGAC 749
 Db 1 CTGTTTCAATGAC 13
 |||||

RESULT 248
 ABZ95868
 ID ABZ95868 standard; DNA; 15 BP.
 XX
 AC ABZ95868;
 XX
 DT 17-OCT-2003 (first entry)
 XX
 DE Human eosinophil peroxidase antisense fragment no.1728.
 XX
 KW Human; antisense; lung dysfunction; nasal airway dysfunction;
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
 KW antiasthmatic; hypotensive; immunosuppressive; cytotatic; gene therapy;
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
 KW lung inflammation; respiratory disease; ds.

OS Homo sapiens.
 XX
 PN WO200285308-A2.
 XX
 PD 31-OCT-2002.
 XX
 PF 23-APR-2002; 2002WO-US013135.
 XX
 PR 24-APR-2001; 2001US-0286137P.
 XX
 PA (EPIG-) EPIGENESIS PHARM INC.
 XX
 PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
 PI Miller S, Tang L, Shahabuddin S;
 XX
 DR WPI; 2003-229219/22.
 XX

XX Pharmaceutical composition for treating ailments associated with impaired
 PT respiration, has oligo(s) antisense to specific gene(s) or its
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
 PT ubiquinone.

XX Disclosure; SEQ ID NO 11110; 872pp; English.
 XX
 CC The invention relates to a novel pharmaceutical composition, which has a
 CC first active agent comprising an oligonucleotide antisense to the
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
 CC junctions of genes encoding a polypeptide associated with lung and/or

CC nasal airway dysfunction and a second active agent comprising an
 CC antiinflammatory steroid and ubiquinone. A composition of the invention
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
 CC immunosuppressive, and cytotatic activity. The composition may have a
 CC use in antisense gene therapy. The composition is useful for treating or
 CC preventing a respiratory, lung or malignant disease or condition, also
 CC for enhancing the prophylactic or therapeutic respiratory effect of an
 CC antiinflammatory steroid in a subject, for reducing or depleting levels
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine or
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
 CC lung inflammation, lung allergies, or a respiratory disease or condition.
 CC Note: The sequence data for this patent is not represented in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences
 XX
 XX Sequence 15 BP; 0 A; 2 C; 7 G; 6 T; 0 U; 0 Other;

Query Match 1.5%; Score 13; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 GGGGTTCCGTTG 24
 Db 3 GGGGTTCCGTTG 15
 |||||

RESULT 249
 ABD19123
 ID ABD19123 standard; DNA; 15 BP.
 XX
 AC ABD19123;
 XX
 DT 29-JUL-2004 (first entry)
 XX
 DE Human eosinophil peroxidase DNA fragment 1728.
 XX
 KW Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;
 KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;
 KW surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;
 KW analgesic; hypotensive; immunosuppressive; cytotatic; cystic fibrosis;
 KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;
 KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;
 KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
 KW pulmonary transplantation rejection; ds.

OS Homo sapiens.
 XX
 PN WO200285309-A2.
 XX
 PD 31-OCT-2002.
 XX
 PF 23-APR-2002; 2002WO-US013143.
 XX
 PR 24-APR-2001; 2001US-0286036P.
 XX
 PA (EPIG-) EPIGENESIS PHARM INC.
 XX
 PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
 PI Miller S, Tang L, Shahabuddin S;
 XX
 DR WPI; 2003-093058/08.
 XX

XX Pharmaceutical composition for treating asthma, has antisense
 PT oligonucleotide containing less percentage of adenosine, targeted to
 PT nucleic acids associated with lung airway or lung dysfunction, and
 PT bronchodilating agent.

XX Claim 15; SEQ ID NO 11110; 763pp; English.
 XX
 CC This invention describes a novel composition (a) a first active agent,
 CC comprising oligonucleotides, effective for alleviating
 CC bronchoconstriction, respiratory tract inflammation, allergies and

reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The oligonucleotides are derived from a gene encoding or regulating the expression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has anti-allergic, anti-inflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The pulmonary obstruction, and/or bronchoconstriction and/or lung inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it

Sequence 15 BP; 0 A; 2 C; 7 G; 6 T; 0 U; 0 Other;
Query Match 1.5%; Score 13; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 GGGGTTTCGGTTC 24
Db 3 GGGGTTTCGGTTC 15

RESULT 250
ADH17043/C
ID ADH17043 standard; DNA; 15 BP.
XX AC ADH17043;
XX DT 11-MAR-2004 (first entry)
XX DE Tagman probe used to analyse human EphB4 sequence.
XX KW tyrosine kinase activity; type 1 plasminogen activator inhibitor; PAI-1;
XX KW TIMP-1; tissue inhibitor of metalloproteinase 1; vinculin;
XX KW vascular endothelial growth factor; VEGF; placental growth factor; PLGF;
XX KW migration inhibitory factor; MIG; probe; ss; human; EphB4.
XX OS Homo sapiens.
XX PN WO2003097854-A2.
XX PD 27-NOV-2003.
XX PF 19-MAY-2003; 2003WO-US015711.
XX PR 17-MAY-2002; 2002US-0380872P.
XX PR 24-FEB-2003; 2003US-0448874P.
XX PR 24-FEB-2003; 2003US-0448922P.
XX PA (SUGEN) SUGEN INC.
XX PI Morimoto A, Deprimo S, O'Farrell A, Smolich BD, Manning WC;
XX PI Walter SA, Schilling JW, Cherrington J;
XX DR WPI; 2004-042604/04.

Determining whether a test compound inhibits tyrosine kinase activity in a mammal by exposing the mammal to the test compound and measuring in the mammal the level of at least one of the measured proteins or mRNA transcripts.
Example K; SEQ ID NO 42; 408pp; English.
XX The invention relates to a novel method for determining whether a test compound inhibits tyrosine kinase activity in a mammal comprising a test measuring in the mammal the level of at least one of the proteins and/or mRNA transcripts or genes for such proteins comprising type 1 plasminogen activator inhibitor (PAI-1), TIMP-1 (tissue inhibitor of metalloproteinase 1), vinculin, vascular endothelial growth factor (VEGF), placental growth factor (PLGF), VEGF/PLGF heterodimers or migration inhibitory factor (MIG), exposing the mammal to the test compound and then measuring in the mammal the level of at least one of the proteins and/or mRNA transcripts previously measured. The method of the invention may be useful for determining whether a test compound inhibits tyrosine kinase activity in a mammal. The current sequence is that of the Tagman probe which was used in the exemplification of the invention.
XX SQ Sequence 15 BP; 2 A; 5 C; 3 G; 5 T; 0 U; 0 Other;
Query Match 1.5%; Score 13; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 441 ACTTGGGCAAGG 453
Db 13 ACTTGGGCAAGG 1
RESULT 251
ADMS6222/C
ID ADMS6222 standard; DNA; 16 BP.
XX AC ADMS6222;
XX DT 03-JUN-2004 (first entry)
XX DE Aspergillus oryzae TAKA amylase PCR primer AMY5.
XX KW Host cell; biopesticide; amylase; enzyme; PCR; primer; ss.
XX OS Aspergillus oryzae.
XX PN WO2004020611-A1.
XX PD 11-MAR-2004.
XX PF 29-AUG-2003; 2003WO-BE000143.
XX PR 30-AUG-2002; 2002US-0407843P.
XX PA (PURA-) PURATOS NV.
XX PI Jonniaux J, Valepyn E, Corbisier A, Dauvrin T;
XX DR WPI; 2004-239191/22.
XX PF New Myrothecium host cell comprising at least one recombinant DNA construct, useful as cell factory for industrial enzyme and/or protein production for producing therapeutic drugs, and as source of biopesticide.
XX PS Example 3; SEQ ID NO 31; 83pp; English.
XX The present sequence is that of PCR primer AMY5. In an example from the invention, this primer and primer GPD2 ADM56221 for the glyceraldehyde-3-phosphate dehydrogenase (GPD) promoter were used to detect the presence of mylase expression vector p2G-S in Myrothecium sp. transformants, verifying integration of the vector in the Myrothecium genome without

ID	AD043601	standard; DNA; 16 BP.
AC	AD043601;	
XX		
DT	29-JUL-2004	(first entry)
XX		
DE	Mutant DNA fragment of SOD-1 where Gl2R mutation occurs.	
XX		
KW	DNazyme; dominantly inherited disorder; achondroplasia;	
KW	amyotrophic lateral sclerosis; Marfan syndrome; hypercholesterolemia;	
KW	osteogenesis imperfecta; SCMS; ss; superoxide disutase; SOD-1.	
OS	Homo sapiens.	
XX		
EN	WO2004038019-A2.	
XX		
PD	06-MAY-2004.	
PF	23-OCT-2003; 2003WO-GB004614.	
XX		
PR	23-OCT-2002; 2002GB-00024663.	
XX		
PA	(ISIS-) ISIS INNOVATION LTD.	
XX		
PI	Besson D, Wood M, Abdelgany A;	
XX		
DR	WPI; 2004-365523/34.	
XX		
PT	New DNazyme that cleaves mutant polynucleotides, useful in treating a	
PT	dominantly inherited disorder associated with a mutant allele, such as	
PT	achondroplasia, amyotrophic lateral sclerosis, Marfan syndrome and	
PT	hypercholesterolemia.	
XX		
PS	Disclosure; Page 7; 24pp; English.	
XX		
CC	The specification describes a DNazyme which selectively cleaves a mutant	
CC	polynucleotide by cleaving at a site remote from the mutation site. The	
CC	DNazyme binds selectively to a mutant allele or its expressed product,	
CC	and comprises a central catalytic motif (Helix II) and two flanking	
CC	regions (helix I and III) where at least one of the flanking regions has	
CC	a polynucleotide sequence complementary to a region that includes the	
CC	mutation in the mutant allele or to that of the expressed product. Both	
CC	flanking regions are complementary to mutated regions of the mutant	
CC	allele or the expressed product. The complement of the mutation is 2 or 3	
CC	nucleotides upstream or downstream of the site of cleavage, preferably in	
CC	helix I. Helix I and III are of different lengths, where helix I is	
CC	shorter than helix III, and their length is 21-7 or 15-8 nucleotides.	
CC	Helix I preferably comprises 9 nucleotides and helix III 13 nucleotides.	
CC	At least one of the flanking regions comprises ribonucleic acid. The	
CC	DNazyme further comprises a stem-loop structure at either or both	
CC	terminus. The DNazyme is useful in therapy, in particular for the	
CC	manufacture of a medicament for the treatment of a disorder associated	
CC	with a mutant allele in a patient, where the DNazyme comprises a central	
CC	catalytic motif and two flanking substrate-binding regions, and where at	
CC	least one flanking region binds at the site of mutation in the mutant	
CC	allele or its expressed product and the catalytic motif cleaves at a site	
CC	remote from the site of mutation. The disorder is a dominantly inherited	
CC	disorder, such as achondroplasia, amyotrophic lateral sclerosis with SOD1	
CC	mutation, Marfan syndrome, hypercholesterolemia, osteogenesis imperfecta	
CC	and SCMS. AD043600-AD043601 represent the wild type and mutant DNA	
CC	fragments, respectively, of the Cu/Zn superoxide disutase (SOD-1) gene	
CC	where a Gl2R mutation occurs and causes amyotrophic lateral sclerosis.	
CC	These sequences are suitable for the design of DNazymes of the invention	
CC	(see AD043602).	
XX		
SQ	Sequence 16 BP; 2 A; 7 C; 6 G; 1 T; 0 U; 0 Other;	
Query Match	1.5%;	Score 12.8; DB 1; Length 16;
Best Local Similarity	87.5%;	Pred. No. 1.9e+02;
Matches	14; Conservative 0; Mismatches 2; Indels 0; Gaps 0	
QY	94 GGGCGACGGCCCACTG 109	

KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 227624; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF0010-ABF99989, ABH0010-ABH99989 and ABI0010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 8 A; 1 C; 0 G; 3 T; 0 U; 1 Other;
XX
Query Match 1.4%; Score 12.6; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 1.6e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
OY 600 GATAAACATTAAA 612
Db 1 RATAAACATTAAA 13
XX
RESULT 257
ABX28501
ID ABX28501 standard; DNA; 15 BP.
XX
AC ABX28501;
XX
XX 09-APR-2002 (first entry)
XX
XX Paraoxonase 2 (PON2), allele specific oligonucleotide primer #8.
XX
XX Paraoxonase 2; PON2; coronary heart disease; ASO;
KW allele specific oligonucleotide; primer; ss.
XX
OS Homo sapiens.
XX
XX WO200182202-A1.
XX
XX 22-NOV-2001.
XX
XX 18-MAY-2001; 2001WO-US016352.
XX
XX 18-MAY-2000; 2000US-0205145P.
XX
XX

PA (GENA-) GENAISSANCE PHARM INC.
XX
XX Anastasio AE, Chew A, Choi JY, Denton RR, Lee HH, Nandabalan K;
XX WPI; 2002-121985/16.
XX
XX An isolated polynucleotide comprising a paraoxonase 2 (PON2) isogene
PT encodes a pharmacologically important protein for the identification of
PT polymorphisms at the PON2 locus.
XX
XX Claim 17; Page 13; 125pp; English.
XX
XX The invention describes an isolated polynucleotide sequence comprising a
CC paraoxonase 2 (PON2) isogene. Primers and probes allow identification of
CC this sequence and its polymorphisms and are useful for identifying which
CC isoform of paraoxonase 2 a person carries. Identification of a PON2
CC isoform allows tailored pharmaceutical treatment to be designed and
CC administered. PON2 is a particularly important gene for the treatment of
CC coronary heart disease. This sequence represents an allele specific
CC oligonucleotide (ASO) primer used for detecting PON2 gene polymorphisms,
CC described in the method of the invention
XX
XX Sequence 15 BP; 8 A; 2 C; 1 G; 3 T; 0 U; 1 Other;
XX
Query Match 1.4%; Score 12.6; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 1.8e+02;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
OY 717 ATAAAACTCAGTTAA 731
Db 1 ATAAAAACACGTTAA 15
XX
Search completed: April 14, 2005, 16:45:14
Job time : 2 secs

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Seq primer: M13RP1
High quality sequence stop: 1.
Location/Qualifiers
1. .44
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:3837520"
/db_xref="taxon:9606"
/clone="IMAGE:175485"
/sex="Male"
/dev_stage="55-year old"
/lab_host="DH10B (ampicillin resistant)"
/clone_lib="Soares adult brain N2b5HB55y"
/notes="Organ: brain; Vector: pT7T3D (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo (dT) primer [5' TGTACCAATCTGAAGTGGAGCGCGCGCTTTTTTTTTTTTTTTT 3'], double-stranded cDNA was size selected, ligated to Eco RI adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pT7T3 vector (Pharmacia). Library went through one round of normalization to a Cot = 53. Library constructed by Bento Soares and M. Fatima Bonaldo. The adult brain RNA was provided by Dr. Donald H. Gilden. Tissue was acquired 17-18 hours after death which occurred in consequence of a ruptured aortic aneurysm. RNA was prepared from a pool of tissues representing the following areas of the brain: frontal, parietal, temporal and occipital cortex from the left and right hemispheres, subcortical white matter, basal ganglia, thalamus, cerebellum, midbrain, pons and medulla."

Query Match 4.1%; Score 36; DB 1; Length 44;
Best Local Similarity 88.6%; Pred. No. 0;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 323 AATGTGACTGCTGACAAAGATGCTGGCGGATGTCTCTATTGA 366
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 AATATTACTGCTGACAAATATAGTGGCGCTATGTCTCTATTGA 44

Search completed: April 14, 2005, 16:52:04
Job time : 1 secs

CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 4 A; 9 C; 4 G; 3 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 81 TGTGCGTGTGAAGGGCGAC 100
 Db 20 TGTGCGTGTGAAGGGCGAC 1
 RESULT 53
 ACC40903/c
 ID ACC40903 standard; DNA; 20 BP.
 XX
 AC ACC40903;
 XX
 DT 23-MAY-2003 (first entry)
 XX
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150457.
 XX
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX
 PH Key Location/Qualifiers
 FT modified_base 1..20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT
 PN WO2003000707-A2.
 XX
 PD 03-JAN-2003.
 XX
 PF 19-JUN-2002; 2002WO-US019664.
 XX
 PR 21-JUN-2001; 2001US-00888360.
 XX
 PA (ISIS-) ISIS PHARM INC.
 XX

PI Bennett FC, Dobie K;
 DR WPI; 2003-184032/18.
 XX
 PT Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX
 PS Claim 3; Page 76; 107pp; English.
 XX
 CC The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 4 A; 8 C; 3 G; 5 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 337 CAAAGATGCTGCGCGCATG 356
 Db 20 CAAAGATGCTGCGCGCATG 1
 RESULT 54
 ACC40920/c
 ID ACC40920 standard; DNA; 20 BP.
 XX
 AC ACC40920;
 XX
 DT 23-MAY-2003 (first entry)
 XX
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150474.
 XX
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX
 PH Key Location/Qualifiers
 FT modified_base 1..20
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
 FT modified_base 1..5
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
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Best Local Similarity 100.0%; Pred. No. 60; Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 658 TTTAAAGTACCTGTAGTGG 677
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Db 20 TTTAAAGTACCTGTAGTGG 1

RESULT 51
ACC40940/c
ID ACC40940 standard; DNA; 20 BP.
XX AC ACC40940;
XX DT 23-MAY-2003 (first entry)
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150494.
XX
KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX Homo sapiens.
OS Synthetic.
XX PH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 1..5
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FT /mod_base= OTHER
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FT /*tag= c
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
XX
XX PD 03-JAN-2003.
XX PF 19-JUN-2002; 2002WO-US019664.
XX PR 21-JUN-2001; 2001US-00888360.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Bennett FC, Dobie K;
XX DR WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
XX Example 15; Page 77; 107pp; English.
XX
XX The invention relates to a compound of 8-50 nucleobases in length,
XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating

CC a disease or condition associated with this enzyme (antisense therapy),
CC especially amyotrophic lateral sclerosis, a disease or condition arising
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC used in diagnostics, therapeutics and as a research reagent, e.g.
CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. Sequences given in records ACC40880-ACC40957 represent human
CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX
SQ Sequence 20 BP; 8 A; 4 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 832 CTGTATGGCACTTATTATGA 851
| | | | | | | | | | | | | | | | | | | | | |
Db 20 CTGTATGGCACTTATTATGA 1

RESULT 52
ACC40882/c
ID ACC40882 standard; DNA; 20 BP.
XX AC ACC40882;
XX DT 23-MAY-2003 (first entry)
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 146145.
XX
KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW ss.
XX Homo sapiens.
OS Synthetic.
XX PH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages. All cytosines are 5-
FT methylcytosine"
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
XX
XX PD 03-JAN-2003.
XX PF 19-JUN-2002; 2002WO-US019664.
XX PR 21-JUN-2001; 2001US-00888360.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Bennett FC, Dobie K;
XX DR WPI; 2003-184032/18.
XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
XX Claim 3; Page 76; 107pp; English.
XX The invention relates to a compound of 8-50 nucleobases in length,
XX

XX OS Homo sapiens.
 XX OS Synthetic.
 XX FH Key
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 FT Location/Qualifiers
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX PN WO2003000707-A2.
 XX 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
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 XX superoxide dismutase 1, for modulating expression of the dismutase and
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 XX Example 15; Page 77; 107pp; English.
 XX The invention relates to a compound of 8-50 nucleobases in length,
 XX targeted to a nucleic acid molecule encoding human superoxide dismutase
 XX 1. The compound specifically hybridises with and inhibits the expression
 XX of human superoxide dismutase 1 by hybridising with at least an 8-
 XX nucleobase portion of the nucleic acid molecule encoding the active site
 XX of the enzyme. The activity of compounds of the invention may be
 XX described as neuroprotective, cytostatic and antiinflammatory. The
 XX mechanism of action of compounds of the invention is antisense inhibition
 XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
 XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 XX Compounds of the invention are useful for inhibiting the expression of
 XX human superoxide dismutase 1 in human cells or tissues, and for treating
 XX a disease or condition associated with this enzyme (antisense therapy),
 XX especially amyotrophic lateral sclerosis, a disease or condition arising
 XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
 XX used in diagnostics, therapeutics and as a research reagent, e.g.
 XX prophylactically to prevent or delay infection, inflammation or tumour
 XX formation. Sequences given in records ACC40880-ACC40957 represent human
 XX superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX Sequence 20 BP; 8 A; 4 C; 1 G; 7 T; 0 U; 0 Other;
 XX Query Match 2.3%; Score 20; DB 1; Length 20;
 XX Best Local Similarity 100.0%; Pred. No. 60;
 XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 620 ATCTTAAAGTGTAAATTCTG 639
 Db 20 ATCTTAAAGTGTAAATTCTG 1
 RESULT 50
 ACC40915/c
 ID ACC40915 standard; DNA; 20 BP.

XX ACC40915;
 XX 23-MAY-2003 (first entry)
 XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150469.
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
 XX ss.
 XX Homo sapiens.
 XX Synthetic.
 XX FH Key
 FT modified_base
 FT Location/Qualifiers
 FT 1..20
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
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 FT 16..20
 FT /*tag= c
 FT /mod_base= OTHER
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX PN WO2003000707-A2.
 XX 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 XX Novel antisense compounds targeted to nucleic acids encoding human
 XX superoxide dismutase 1, for modulating expression of the dismutase and
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
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 XX The invention relates to a compound of 8-50 nucleobases in length,
 XX targeted to a nucleic acid molecule encoding human superoxide dismutase
 XX 1. The compound specifically hybridises with and inhibits the expression
 XX of human superoxide dismutase 1 by hybridising with at least an 8-
 XX nucleobase portion of the nucleic acid molecule encoding the active site
 XX of the enzyme. The activity of compounds of the invention may be
 XX described as neuroprotective, cytostatic and antiinflammatory. The
 XX mechanism of action of compounds of the invention is antisense inhibition
 XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
 XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 XX Compounds of the invention are useful for inhibiting the expression of
 XX human superoxide dismutase 1 in human cells or tissues, and for treating
 XX a disease or condition associated with this enzyme (antisense therapy),
 XX especially amyotrophic lateral sclerosis, a disease or condition arising
 XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
 XX used in diagnostics, therapeutics and as a research reagent, e.g.
 XX prophylactically to prevent or delay infection, inflammation or tumour
 XX formation. Sequences given in records ACC40880-ACC40957 represent human
 XX superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX Sequence 20 BP; 7 A; 5 C; 2 G; 6 T; 0 U; 0 Other;
 XX Query Match 2.3%; Score 20; DB 1; Length 20;

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XX 19-JUN-2002; 2002WO-US019664.
XX PF
XX XX
XX 21-JUN-2001; 2001US-00888360.
XX PR
XX XX
XX (ISIS-) ISIS PHARM INC.
XX PA
XX PI Bennett FC, Dobie K;
XX XX
XX WPI; 2003-184032/18.
XX DR
XX XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX PT superoxide dismutase 1, for modulating expression of the dismutase and
XX PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX XX
XX Claim 3; Page 77; 107pp; English.
XX PS
XX CC The invention relates to a compound of 8-50 nucleobases in length,
XX CC targeted to a nucleic acid molecule encoding human superoxide dismutase
XX CC 1. The compound specifically hybridises with and inhibits the expression
XX CC of human superoxide dismutase 1 by hybridising with at least an 8-
XX CC nucleobase portion of the nucleic acid molecule encoding the active site
XX CC of the enzyme. The activity of compounds of the invention may be
XX CC described as neuroprotective, cytostatic and antiinflammatory. The
XX CC mechanism of action of compounds of the invention is antisense inhibition
XX CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX CC Compounds of the invention are useful for inhibiting the expression of
XX CC human superoxide dismutase 1 in human cells or tissues, and for treating
XX CC a disease or condition associated with this enzyme (antisense therapy),
XX CC especially amyotrophic lateral sclerosis, a disease or condition arising
XX CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX CC used in diagnostics, therapeutics and as a research reagent, e.g.
XX CC prophylactically to prevent or delay infection, inflammation or tumour
XX CC formation. Sequences given in records ACC40880-ACC40957 represent human
XX CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX SQ Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 2.3%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 60;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 410 CGCACACTGGTGGTCCATGA 429
DB 20 CGCACACTGGTGGTCCATGA 1
|||||
|||||

RESULT 48
ACC40911/c
ID ACC40911 standard; DNA; 20 BP.
XX
XX ACC40911;
XX
XX 23-MAY-2003 (first entry)
XX DT
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150465.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX
XX Homo sapiens.
XX OS Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX FT /*tag= a
XX FT /mod_base= OTHER
XX FT /note= "Phosphorothioate linkages. All cytosines are 5-
XX FT methylcytosine"
XX FT modified_base 1..5
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FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
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FT /*tag= c
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FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
XX WO2003000707-A2.
XX
XX 03-JAN-2003.
XX
XX 19-JUN-2002; 2002WO-US019664.
XX PF
XX XX
XX 21-JUN-2001; 2001US-00888360.
XX PR
XX XX
XX (ISIS-) ISIS PHARM INC.
XX PA
XX XX
XX Bennett FC, Dobie K;
XX PI
XX WPI; 2003-184032/18.
XX DR
XX XX
XX Novel antisense compounds targeted to nucleic acids encoding human
XX PT superoxide dismutase 1, for modulating expression of the dismutase and
XX PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX XX
XX Example 15; Page 77; 107pp; English.
XX PS
XX CC The invention relates to a compound of 8-50 nucleobases in length,
XX CC targeted to a nucleic acid molecule encoding human superoxide dismutase
XX CC 1. The compound specifically hybridises with and inhibits the expression
XX CC of human superoxide dismutase 1 by hybridising with at least an 8-
XX CC nucleobase portion of the nucleic acid molecule encoding the active site
XX CC of the enzyme. The activity of compounds of the invention may be
XX CC described as neuroprotective, cytostatic and antiinflammatory. The
XX CC mechanism of action of compounds of the invention is antisense inhibition
XX CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX CC Compounds of the invention are useful for inhibiting the expression of
XX CC human superoxide dismutase 1 in human cells or tissues, and for treating
XX CC a disease or condition associated with this enzyme (antisense therapy),
XX CC especially amyotrophic lateral sclerosis, a disease or condition arising
XX CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX CC used in diagnostics, therapeutics and as a research reagent, e.g.
XX CC prophylactically to prevent or delay infection, inflammation or tumour
XX CC formation. Sequences given in records ACC40880-ACC40957 represent human
XX CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX SQ Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 2.3%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 60;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 535 CCCTTGGATGCTAGCTGAGG 554
DB 20 CCCTTGGATGCTAGCTGAGG 1
|||||
|||||

RESULT 49
ACC40913/c
ID ACC40913 standard; DNA; 20 BP.
XX
XX ACC40913;
XX AC
XX 23-MAY-2003 (first entry)
XX DT
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150467.
XX
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
```

CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
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 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 4 A; 9 C; 2 G; 5 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 144 ATGACACAGTGAAGGTGTGG 163
 DB 20 ATGACACAGTGAAGGTGTGG 1
 RESULT 46
 ACC40904/C
 ID ACC40904 standard; DNA; 20 BP.
 XX AC ACC40904;
 XX 23-MAY-2003 (first entry)
 DT Human superoxide dismutase 1 antisense inhibitor # ISIS 150458.
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX Key Location/Qualifiers
 FT modified_base 1..20
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 FT modified_base 1..5
 FT /*tag= b
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 FT modified_base 16..20
 FT /*tag= c
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX WO2003000707-A2.
 XX 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.

PT Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
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 XX The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 6 A; 9 C; 2 G; 3 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 340 AGATGGTGTGGCGGATGTGT 359
 DB 20 AGATGGTGTGGCGGATGTGT 1
 RESULT 47
 ACC40908/C
 ID ACC40908 standard; DNA; 20 BP.
 XX AC ACC40908;
 XX 23-MAY-2003 (first entry)
 DT Human superoxide dismutase 1 antisense inhibitor # ISIS 150462.
 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX Key Location/Qualifiers
 FT modified_base 1..20
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 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT modified_base 1..5
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 XX WO2003000707-A2.
 XX 03-JAN-2003.

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RESULT 44
ACC40936/c
ID ACC40936 standard; DNA; 20 BP.
XX AC ACC40936;
XX DT 23-MAY-2003 (first entry)
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150490.
XX KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX KW ss.
XX OS Homo sapiens.
XX OS Synthetic.
XX PH Key Location/Qualifiers
XX FT modified_base 1..20
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XX FT /mod_base= OTHER
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XX FT methylcytosine"
XX FT modified_base 1..5
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XX FT /mod_base= OTHER
XX FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX FT /tag= c
XX FT /mod_base= OTHER
XX FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX FT WO2003000707-A2.
XX PN 03-JAN-2003.
XX PD 19-JUN-2002; 2002WO-US019664.
XX PF 21-JUN-2001; 2001US-00888360.
XX PR (ISIS-) ISIS PHARM INC.
XX PA Bennett FC, Dobie K;
XX PI WPI; 2003-184032/18.
XX DR Novel antisense compounds targeted to nucleic acids encoding human
XX PT superoxide dismutase 1, for modulating expression of the dismutase and
XX PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX PS Claim 3; Page 77; 107pp; English.
XX CC The invention relates to a compound of 8-50 nucleobases in length,
XX CC targeted to a nucleic acid molecule encoding human superoxide dismutase
XX CC 1. The compound specifically hybridises with and inhibits the expression
XX CC of human superoxide dismutase 1 by hybridising with at least an 8-
XX CC nucleobase portion of the nucleic acid molecule encoding the active site
XX CC of the enzyme. The activity of compounds of the invention may be
XX CC described as neuroprotective, cytostatic and antiinflammatory. The
XX CC mechanism of action of compounds of the invention is antisense inhibition
XX CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX CC Compounds of the invention are useful for inhibiting the expression of
XX CC human superoxide dismutase 1 in human cells or tissues, and for treating
XX CC a disease or condition associated with this enzyme (antisense therapy),
XX CC especially amyotrophic lateral sclerosis, a disease or condition arising
XX CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX CC used in diagnostics, therapeutics and as a research reagent, e.g.

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```

CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. Sequences given in records ACC40880-ACC40957 represent human
CC superoxide dismutase 1 antisense inhibitor oligonucleotides
XX Sequence 20 BP; 6 A; 3 C; 3 G; 8 T; 0 U; 0 Other;
Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 818 TCTGATATAAAACCCCTGTAT 837
DB 20 TCTGATATAAAACCCCTGTAT 1
RESULT 45
ACC40893/c
ID ACC40893 standard; DNA; 20 BP.
XX AC ACC40893;
XX DT 23-MAY-2003 (first entry)
XX DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150447.
XX KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX KW ss.
XX OS Homo sapiens.
XX OS Synthetic.
XX PH Key Location/Qualifiers
XX FT modified_base 1..20
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XX FT /mod_base= OTHER
XX FT /note= "Phosphorothioate linkages. All cytosines are 5-
XX FT methylcytosine"
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XX FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX FT /tag= c
XX FT /mod_base= OTHER
XX FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX FT WO2003000707-A2.
XX PN 03-JAN-2003.
XX PD 19-JUN-2002; 2002WO-US019664.
XX PF 21-JUN-2001; 2001US-00888360.
XX PR (ISIS-) ISIS PHARM INC.
XX PA Bennett FC, Dobie K;
XX PI WPI; 2003-184032/18.
XX DR Novel antisense compounds targeted to nucleic acids encoding human
XX PT superoxide dismutase 1, for modulating expression of the dismutase and
XX PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX PS Example 15; Page 76; 107pp; English.
XX CC The invention relates to a compound of 8-50 nucleobases in length,
XX CC targeted to a nucleic acid molecule encoding human superoxide dismutase
XX CC 1. The compound specifically hybridises with and inhibits the expression
XX CC of human superoxide dismutase 1 by hybridising with at least an 8-
XX CC nucleobase portion of the nucleic acid molecule encoding the active site

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PH Key Location/Qualifiers
 FT modified_base 1..20
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 FT modified_base 16..20
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX WO2003000707-A2.
 XX 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
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 XX Bennett FC, Dobie K;
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 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX Sequence 20 BP; 8 A; 6 C; 1 G; 5 T; 0 U; 0 Other;
 SQ Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 205 TGTTCATGAGTTTGAGATA 224
 Db 20 TGTTCATGAGTTTGAGATA 1
 .RESULT 43
 ACC40932/c
 ID ACC40932 standard; DNA; 20 BP.
 XX
 AC ACC40932;
 XX
 DT 23-MAY-2003 (first entry)

XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150486.
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 XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 OS
 PH Key Location/Qualifiers
 FT modified_base 1..20
 FT /*tag= a
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 FT methylcytosine"
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 XX WO2003000707-A2.
 XX 03-JAN-2003.
 XX 19-JUN-2002; 2002WO-US019664.
 XX 21-JUN-2001; 2001US-00888360.
 XX (ISIS-) ISIS PHARM INC.
 XX Bennett FC, Dobie K;
 XX WPI; 2003-184032/18.
 XX Novel antisense compounds targeted to nucleic acids encoding human
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 CC of the enzyme. The activity of compounds of the invention may be
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 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX Sequence 20 BP; 9 A; 3 C; 5 G; 3 T; 0 U; 0 Other;
 SQ Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 801 TCCTTGTCTTCAGCCTGT 820

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XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
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XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
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XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX Sequence 20 BP; 9 A; 3 C; 3 G; 5 T; 0 U; 0 Other;
SQ Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 787 AACTTGTGCAGAAATTCCTTG 806
Db 20 AACTTGTGCAGAAATTCCTTG 1
RESULT 41
ACC40892/c
ID ACC40892 standard; DNA; 20 BP.
XX ACC40892;
XX 23-MAY-2003 (first entry)
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150446.
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX Homo sapiens.
XX OS Synthetic.
XX Key Location/Qualifiers
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XX /note= "phosphorothioate linkages. All cytosines are 5-
XX methylcytosine"
XX modified_base 1..5
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XX /mod_base= OTHER
XX /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX modified_base 16..20
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FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX WO2003000707-A2.
XX 03-JAN-2003.
XX 19-JUN-2002; 2002WO-US019664.
XX 21-JUN-2001; 2001US-00888360.
XX (ISIS-) ISIS PHARM INC.
XX Bennett FC, Dobie K;
XX WPI; 2003-184032/18.
XX Novel antisense compounds targeted to nucleic acids encoding human
XX superoxide dismutase 1, for modulating expression of the dismutase and
XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
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XX targeted to a nucleic acid molecule encoding human superoxide dismutase
XX 1. The compound specifically hybridises with and inhibits the expression
XX of human superoxide dismutase 1 by hybridising with at least an 8-
XX nucleobase portion of the nucleic acid molecule encoding the active site
XX of the enzyme. The activity of compounds of the invention may be
XX described as neuroprotective, cytostatic and antiinflammatory. The
XX mechanism of action of compounds of the invention is antisense inhibition
XX of human superoxide dismutase 1 expression by chimeric phosphorothioate
XX oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
XX Compounds of the invention are useful for inhibiting the expression of
XX human superoxide dismutase 1 in human cells or tissues, and for treating
XX a disease or condition associated with this enzyme (antisense therapy),
XX especially amyotrophic lateral sclerosis, a disease or condition arising
XX from aberrant apoptosis and a hyperproliferative disorder. It may also be
XX used in diagnostics, therapeutics and as a research reagent, e.g.
XX prophylactically to prevent or delay infection, inflammation or tumour
XX formation. Sequences given in records ACC40880-ACC40957 represent human
XX superoxide dismutase 1 antisense inhibitor oligonucleotides
XX Sequence 20 BP; 5 A; 7 C; 2 G; 6 T; 0 U; 0 Other;
SQ Query Match 2.3%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 142 TAATGACCACTGACGTGT 161
Db 20 TAATGACCACTGACGTGT 1
RESULT 42
ACC40897/c
ID ACC40897 standard; DNA; 20 BP.
XX ACC40897;
XX 23-MAY-2003 (first entry)
XX Human superoxide dismutase 1 antisense inhibitor # ISIS 150451.
XX Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
XX antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
XX hyperproliferative disorder; therapy; infection; inflammation; tumour;
XX ss.
XX Homo sapiens.
XX OS Synthetic.
XX
```

CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisenase therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 8 A; 1 C; 7 G; 4 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 AC ACC40914;
 XX
 DT 23-MAY-2003 (first entry)
 XX
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150468.
 XX
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
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 FT /mod_base= OTHER
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 FT methylcytosine"
 FT modified_base 1..5
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
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 FN WO2003000707-A2.
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 XX 03-JAN-2003.
 XX
 XX 19-JUN-2002; 2002WO-US019664.
 XX
 XX 21-JUN-2001; 2001US-00888360.
 XX
 XX (ISIS-) ISIS PHARM INC.
 XX PA Bennett FC, Dobie K;
 XX PI
 XX WPI; 2003-184032/18.
 DR
 XX Novel antisense compounds targeted to nucleic acids encoding human
 XX superoxide dismutase 1, for modulating expression of the dismutase and
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

PS
 XX Example 15; Page 77; 107pp; English.
 CC The invention relates to a compound of 8-50 nucleobases in length,
 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
 CC 1. The compound specifically hybridises with and inhibits the expression
 CC of human superoxide dismutase 1 by hybridising with at least an 8-
 CC nucleobase portion of the nucleic acid molecule encoding the active site
 CC of the enzyme. The activity of compounds of the invention may be
 CC described as neuroprotective, cytostatic and antiinflammatory. The
 CC mechanism of action of compounds of the invention is antisense inhibition
 CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
 CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX
 SQ Sequence 20 BP; 7 A; 5 C; 1 G; 7 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 625 AAAAGTGAATTTGTGTGACT 644
 DB 20 AAAAGTGAATTTGTGTGACT 1
 RESULT 40
 ACC40930/c
 ID ACC40930 standard; DNA; 20 BP.
 XX
 AC ACC40930;
 XX
 DT 23-MAY-2003 (first entry)
 XX
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150484.
 XX
 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX Homo sapiens.
 OS Synthetic.
 XX
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 FN WO2003000707-A2.
 XX
 XX 03-JAN-2003.
 XX
 XX 19-JUN-2002; 2002WO-US019664.
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 XX 21-JUN-2001; 2001US-00888360.
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 XX (ISIS-) ISIS PHARM INC.
 XX PA Bennett FC, Dobie K;
 XX PI
 XX WPI; 2003-184032/18.
 DR
 XX Novel antisense compounds targeted to nucleic acids encoding human
 XX superoxide dismutase 1, for modulating expression of the dismutase and
 XX treating diseases or conditions, e.g. amyotrophic lateral sclerosis.

RESULT 37
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 ID ACC40898 standard; DNA; 20 BP.
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 AC ACC40898;
 XX
 DT 23-MAY-2003 (first entry)
 XX
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150452.
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 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
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 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
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 FT /tag= b
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 FT modified_base 16..20
 FT /tag= c
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 PN WO2003000707-A2.
 XX
 PD 03-JAN-2003.
 XX
 PF 19-JUN-2002; 2002WO-US019664.
 XX
 PR 21-JUN-2001; 2001US-00888360.
 XX
 PA (ISIS-) ISIS PHARM INC.
 XX
 PI Bennett FC, Dobie K;
 XX
 DR WPI; 2003-184032/18.
 XX
 PT Novel antisense compounds targeted to nucleic acids encoding human
 PT superoxide dismutase 1, for modulating expression of the dismutase and
 PT treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
 XX
 PS Claim 3; Page 76; 107pp; English.
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 CC targeted to a nucleic acid molecule encoding human superoxide dismutase
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 CC of human superoxide dismutase 1 by hybridising with at least an 8-
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 CC Compounds of the invention are useful for inhibiting the expression of
 CC human superoxide dismutase 1 in human cells or tissues, and for treating
 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX

SQ Sequence 20 BP; 5 A; 6 C; 2 G; 7 T; 0 U; 0 Other;
 Query Match 2.3%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 212 GAGTTTGGAGATAATACAGC 231
 DB 20 GAGTTTGGAGATAATACAGC 1
 RESULT 38
 ACC40912/c
 ID ACC40912 standard; DNA; 20 BP.
 XX
 AC ACC40912;
 XX
 DT 23-MAY-2003 (first entry)
 XX
 DE Human superoxide dismutase 1 antisense inhibitor # ISIS 150466.
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 KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;
 KW antiinflammatory; amyotrophic lateral sclerosis; apoptosis;
 KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
 KW ss.
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 OS Homo sapiens.
 OS Synthetic.
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 FT modified_base 1..20
 FT /tag= a
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 FT /note= "Phosphorothioate linkages. All cytosines are 5-
 FT methylcytosine"
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
 FT modified_base 16..20
 FT /tag= c
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 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
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 PN WO2003000707-A2.
 XX
 PD 03-JAN-2003.
 XX
 PF 19-JUN-2002; 2002WO-US019664.
 XX
 PR 21-JUN-2001; 2001US-00888360.
 XX
 PA (ISIS-) ISIS PHARM INC.
 XX
 PI Bennett FC, Dobie K;
 XX
 DR WPI; 2003-184032/18.
 XX
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 PT superoxide dismutase 1, for modulating expression of the dismutase and
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 CC Compounds of the invention are useful for inhibiting the expression of
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 CC a disease or condition associated with this enzyme (antisense therapy),
 CC especially amyotrophic lateral sclerosis, a disease or condition arising
 CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
 CC used in diagnostics, therapeutics and as a research reagent, e.g.
 CC prophylactically to prevent or delay infection, inflammation or tumour
 CC formation. Sequences given in records ACC40880-ACC40957 represent human
 CC superoxide dismutase 1 antisense inhibitor oligonucleotides
 XX

PS Claim 2; SEQ ID NO 7; 22pp; Korean.

XX The invention relates to a novel method and a DNA chip for monitoring a response of cancer patients to irradiation therapy using antioxidant gene expression analysis, thereby accurately anticipating the response to irradiation therapy and minimizing adverse side-effects thereof. A method for monitoring a response of cancer patients to irradiation therapy comprises: collecting a peripheral blood cell from a human; irradiating the peripheral blood cell; extracting RNA according to the time period; preparing DNA from the RNA; hybridizing the DNA with antioxidant enzyme cDNA; amplifying the hybridized DNA using one or more pairs of primers selected from: DNA fragments of ADT66487 and ADT66488; DNA fragments of ADT66489 and ADT66490; DNA fragments of ADT66491 and ADT66492; DNA fragments of ADT66493 and ADT66494; DNA fragments of ADT66495 and ADT66496; and ADT66497 and ADT66498; and analyzing expression pattern of the amplified DNA according to the time period. A DNA chip for monitoring a response of cancer patients to irradiation therapy amplifies one or more antioxidant genes corresponding to the following DNA fragments: DNA fragments of ADT66487 and ADT66488 - GPx1; DNA fragments of ADT66489 and ADT66490 - gamma-GCS; DNA fragments of ADT66491 and ADT66492 - catalase; DNA fragments of ADT66493 and ADT66494 - CuZn SOD; DNA fragments of ADT66495 and ADT66496 - Mn SOD; and DNA fragments of ADT66497 and ADT66498 - Prx II. The present sequence represents a PCR primer of the invention.

XX Sequence 21 BP; 4 A; 5 C; 9 G; 3 T; 0 U; 0 Other;

SEQ Query Match 2.4%; Score 21; DB 1; Length 21; Best Local Similarity 100.0%; Pred. No. 52; Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 65 ATGGCGACGAAGCCGTGTGC 85
|||||
1 ATGGCGACGAAGCCGTGTGC 21

Db

RESULT 35

ABQ73057/c

ID ABQ73057 standard; DNA; 22 BP.

XX

AC ABQ73057;

XX

DT 24-SEP-2002 (first entry)

XX

DE Cu/Zn SOD gene related PCR primer SEQ ID NO:5.

XX

XX Amyotrophic lateral sclerosis; ALS; transgenic rat; SOD; Cu/Zn SOD; superoxide dismutase; PCR primer; ss.

KW

KW Rattus sp.

OS

OS Synthetic.

XX

PN JP2002142610-A.

XX

XX 21-MAY-2002.

PD

XX

XX 07-NOV-2000; 2000JP-00339567.

PF

XX

XX 07-NOV-2000; 2000JP-00339567.

PR

XX

XX (TOHO-) TOHOKU TECHNOARCH KK.

PA

XX

XX WPI; 2002-552464/59.

DR

XX

XX An amyotrophic lateral sclerosis model rat for investigation of its pathology and onset mechanism with introduced exogenic variant Cu/Zn superoxide dismutase.

PT

PT

XX

PS Example 2; Page 13; 28pp; Japanese.

XX

XX The present invention describes an amyotrophic lateral sclerosis (ALS) model rat. Also described: (1) a transgenic rat or its progeny having a DNA with integrated exogenic variant Cu/Zn superoxide dismutase (SOD)

CC Gene; and (2) rat embryonic stem cells having human variant Cu/Zn SOD gene sequence. The transgenic rat can be used in the investigation of the pathology and the onset mechanism of ALS. The present sequence represents a PCR primer which is used in an example from the present invention

CC

XX Sequence 22 BP; 7 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

SEQ Query Match 2.3%; Score 20.4; DB 1; Length 22; Best Local Similarity 95.5%; Pred. No. 61; Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 193 GCATGGATTCCATGTTTCATGAG 214
|||||
22 GCATGGATTCCGTGTTTCATGAG 1

Db

RESULT 36

AAV01383

ID AAV01383 standard; DNA; 20 BP.

XX

AC AAV01383;

XX

DT 23-MAR-1998 (first entry)

XX

DE Superoxide dismutase 1 PCR primer for universal mammalian STS's.

XX

XX PCR primer; polymerase chain reaction; amplification; UM-STs; universal mammalian sequence tagged site; genomic map; clone; ss.

KW

KW Synthetic.

OS

XX WO9731012-A1.

PN

XX 28-AUG-1997.

PD

XX

XX 18-FEB-1997; 97WO-US002403.

PF

XX

XX 22-FEB-1996; 96US-0012061P.

PR

XX

XX (UNMI) UNIV MICHIGAN.

PA

XX (UNMS) UNIV MICHIGAN STATE.

XX

PI Brewer GJ, Venta PJ, Yuzbasiyan-Gurkan V;

XX

XX WPI; 1997-435083/40.

DR

XX

XX New oligonucleotide primers amplifying gene regions conserved among mammals - useful for developing genomic maps, isolating clones and making cross-species comparisons.

PT

PT

XX

XX Claim 2; Page 13; 26pp; English.

PS

XX

XX The present sequence represents a specifically claimed oligonucleotide PCR primer. The oligonucleotide can be used for polymerase chain reaction (PCR) amplification of DNA, specifically regions of specific genes that are conserved among mammalian species, i.e. pairs of oligonucleotides from the present specification represent universal mammalian sequence-tagged site (UM-STs) primers. The primers are used to develop genomic maps to isolate clones from libraries, to make cross-species comparisons and to develop additional genetic markers. UM-STs allow genomic comparisons to be made between more species

CC

XX Sequence 20 BP; 4 A; 6 C; 5 G; 5 T; 0 U; 0 Other;

SEQ Query Match 2.3%; Score 20; DB 1; Length 20; Best Local Similarity 100.0%; Pred. No. 60; Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 236 TGTACCAGTGCAGGTCCTCA 255
|||||
1 TGTACCAGTGCAGGTCCTCA 20

Db

XX PN US2003186246-A1.
 XX PD 02-OCT-2003.
 XX PF 28-MAR-2002; 2002US-00109349.
 XX PR 28-MAR-2002; 2002US-00109349.
 XX PA (WILL/) WILLEY J C.
 XX PA (CRAW/) CRAWFORD E L.
 XX PI Willey JC, Crawford EL;
 XX PI WPI; 2003-811730/76.
 XX DR Direct comparison of numerical gene expression values between samples of
 XX PT genes comprises using multiplex standardized reverse transcription-
 XX PT polymerase chain reaction.
 XX PS Example 1; SEQ ID NO 52; 59pp; English.
 XX CC The present invention relates to a method for the direct comparison of
 XX CC numerical gene expression values between samples of genes. The method
 XX CC comprises amplifying cDNA in the presence of a competitive template
 XX CC mixture and primer pairs for several genes and then amplifying aliquots
 XX CC of the PCR products using a primer pair specific for each gene. The
 XX CC method of amplification is by multiplex standardised reverse
 XX CC transcriptase-polymerase chain reaction (Start-PCR). High density
 XX CC oligonucleotide or cDNA arrays are used to measure PCR products following
 XX CC quantitative Start-PCR. The method is useful for the assessment of gene
 XX CC expression in small biological samples such as fine needle aspirate
 XX CC biopsies, and laser captured microdissected materials. The method allows
 XX CC for the standardised measurement of hundreds of genes from the same
 XX CC sample, which in prior art, could only be assessed for one gene. The
 XX CC present sequence represents a multiplex Start-PCR primer which can be
 XX CC used in the method of the present invention.
 XX SQ Sequence 21 BP; 6 A; 1 C; 9 G; 5 T; 0 U; 0 Other;
 Query Match 2.4%; Score 21; DB 1; Length 21;
 Best Local Similarity 100.0%; Pred. No. 52;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 153 TGAAGGTGTGGGAAGCATTA 173
 Db 1 TGAAGGTGTGGGAAGCATTA 21
 RESULT 33
 ADD56533/c
 ID ADD56533 standard; DNA; 21 BP.
 XX AC ADD56533;
 XX DT 15-JAN-2004 (first entry)
 XX DE Human gene expression analysis multiplex Start-PCR primer #53.
 XX KW Gene expression; multiplex standardised reverse transcriptase-PCR;
 XX KW Start-PCR; high density oligonucleotide array; cDNA array;
 XX KW small biological sample; fine needle aspirate biopsy;
 XX KW laser captured microdissected material; human; primer; ss.
 XX OS Homo sapiens.
 XX PN US2003186246-A1.
 XX PD 02-OCT-2003.
 XX PF 28-MAR-2002; 2002US-00109349.
 XX PR 28-MAR-2002; 2002US-00109349.

XX PA (WILL/) WILLEY J C.
 XX PA (CRAW/) CRAWFORD E L.
 XX PI Willey JC, Crawford EL;
 XX PI WPI; 2003-811730/76.
 XX DR Direct comparison of numerical gene expression values between samples of
 XX PT genes comprises using multiplex standardized reverse transcription-
 XX PT polymerase chain reaction.
 XX PS Example 1; SEQ ID NO 53; 59pp; English.
 XX CC The present invention relates to a method for the direct comparison of
 XX CC numerical gene expression values between samples of genes. The method
 XX CC comprises amplifying cDNA in the presence of a competitive template
 XX CC mixture and primer pairs for several genes and then amplifying aliquots
 XX CC of the PCR products using a primer pair specific for each gene. The
 XX CC method of amplification is by multiplex standardised reverse
 XX CC transcriptase-polymerase chain reaction (Start-PCR). High density
 XX CC oligonucleotide or cDNA arrays are used to measure PCR products following
 XX CC quantitative Start-PCR. The method is useful for the assessment of gene
 XX CC expression in small biological samples such as fine needle aspirate
 XX CC biopsies, and laser captured microdissected materials. The method allows
 XX CC for the standardised measurement of hundreds of genes from the same
 XX CC sample, which in prior art, could only be assessed for one gene. The
 XX CC present sequence represents a multiplex Start-PCR primer which can be
 XX CC used in the method of the present invention.
 XX SQ Sequence 21 BP; 9 A; 8 C; 2 G; 2 T; 0 U; 0 Other;
 Query Match 2.4%; Score 21; DB 1; Length 21;
 Best Local Similarity 100.0%; Pred. No. 52;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 492 GTCGTTGGCTTGCTGTGTA 512
 Db 21 GTCGTTGGCTTGCTGTGTA 1
 RESULT 34
 ADT66493
 ID ADT66493 standard; DNA; 21 BP.
 XX AC ADT66493;
 XX DT 16-DEC-2004 (first entry)
 XX DE PCR primer for CuZn SOD SEQ ID NO:7.
 XX KW ss; primer; PCR; CuZn SOD; cancer; antioxidant gene expression analysis;
 XX KW irradiation therapy.
 XX OS Synthetic.
 XX PN KR2004025183-A.
 XX PD 24-MAR-2004.
 XX PF 18-SEP-2002; 2002KR-00057027.
 XX PR 18-SEP-2002; 2002KR-00057027.
 XX PA (PARK/) PARK Y M.
 XX PI Choi EM, Han MY, Hwang SY, Jun HU, Kim YH, Park JH, Park YM;
 XX PI WPI; 2004-495260/47.
 XX DR Method and DNA chip for monitoring response of cancer patients to
 XX PT irradiation therapy using antioxidant gene expression analysis.

```

Query Match      2.5%; Score 22; DB 1; Length 27;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 67 GCGCAGCAGGCGGTGTGCTG 88
DB 6 GCGCAGCAGGCGGTGTGCTG 27

RESULT 30
ABQ73054/c
ID ABQ73054 standard; DNA; 21 BP.
XX
AC ABQ73054;
XX
DT 24-SEP-2002 (first entry)
XX
DE Cu/Zn SOD gene related PCR primer SEQ ID NO:2.
XX
KW Amyotrophic lateral sclerosis; ALS; transgenic rat; SOD; Cu/Zn SOD;
KW superoxide dismutase; PCR primer; ss.
XX
OS Rattus sp.
OS Synthetic.
XX
PN JP2002142610-A.
XX
PD 21-MAY-2002.
XX
PF 07-NOV-2000; 2000JP-00339567.
XX
PR 07-NOV-2000; 2000JP-00339567.
XX
PA (TOHO-) TOHOKU TECHNOARCH KK.
XX
DR WPI; 2002-552464/59.
XX
PT An amyotrophic lateral sclerosis model rat for investigation of its
PT pathology and onset mechanism with introduced exogenic variant Cu/Zn
PT superoxide dismutase.
XX
PS Example 1; Page 13; 28pp; Japanese.
XX
CC The present invention describes an amyotrophic lateral sclerosis (ALS)
CC model rat. Also described: (1) a transgenic rat or its progeny having a
CC DNA with integrated exogenic variant Cu/Zn superoxide dismutase (SOD)
CC gene; and (2) rat embryonic stem cells having human variant Cu/Zn SOD
CC gene sequence. The transgenic rat can be used in the investigation of the
CC pathology and the onset mechanism of ALS. The present sequence represents
CC a PCR primer which is used in an example from the present invention
XX
SQ Sequence 21 BP; 9 A; 3 C; 6 G; 3 T; 0 U; 0 Other;

Query Match      2.4%; Score 21; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 564 TCATCTGTTATCTCTGCTAGCT 584
DB 21 TCATCTGTTATCTCTGCTAGCT 1

RESULT 31
ABZ79578
ID ABZ79578 standard; DNA; 21 BP.
XX
AC ABZ79578;
XX
DT 23-MAY-2003 (first entry)
XX
DE Human superoxide dismutase 1 PCR probe sequence.
XX
KW Human; superoxide dismutase 1; antisense; neuroprotective; cytostatic;

KW antinflammatory; amyotrophic lateral sclerosis; apoptosis;
KW hyperproliferative disorder; therapy; infection; inflammation; tumour;
KW PCR; probe; ss.
XX
OS Homo sapiens.
XX
PN WO2003000707-A2.
XX
PD 03-JAN-2003.
XX
PF 19-JUN-2002; 2002WO-US019664.
XX
PR 21-JUN-2001; 2001US-00888360.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Bennett FC, Dobie K;
XX
DR WPI; 2003-184032/18.
XX
KW Novel antisense compounds targeted to nucleic acids encoding human
KW superoxide dismutase 1, for modulating expression of the dismutase and
KW treating diseases or conditions, e.g. amyotrophic lateral sclerosis.
XX
PS Example 13; Page 74; 107pp; English.
XX
CC The invention relates to a compound of 8-50 nucleobases in length,
CC targeted to a nucleic acid molecule encoding human superoxide dismutase
CC 1. The compound specifically hybridises with and inhibits the expression
CC of human superoxide dismutase 1 by hybridising with at least an 8-
CC nucleobase portion of the nucleic acid molecule encoding the active site
CC of the enzyme. The activity of compounds of the invention may be
CC described as neuroprotective, cytostatic and antiinflammatory. The
CC mechanism of action of compounds of the invention is antisense inhibition
CC of human superoxide dismutase 1 expression by chimeric phosphorothioate
CC oligonucleotides having 2'-methoxyethyl (2'-MOE) wings and a deoxy gap.
CC Compounds of the invention are useful for inhibiting the expression of
CC human superoxide dismutase 1 in human cells or tissues, and for treating
CC a disease or condition associated with this enzyme (antisense therapy),
CC especially amyotrophic lateral sclerosis, a disease or condition arising
CC from aberrant apoptosis and a hyperproliferative disorder. It may also be
CC used in diagnostics, therapeutics and as a research reagent, e.g.
CC prophylactically to prevent or delay infection, inflammation or tumour
CC formation. The current sequence represents the human superoxide dismutase
CC 1 PCR probe sequence
XX
SQ Sequence 21 BP; 3 A; 5 C; 9 G; 4 T; 0 U; 0 Other;

Query Match      2.4%; Score 21; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 ACGAAGCGCGTGTGCTGCTG 91
DB 1 ACGAAGCGCGTGTGCTGCTG 21

RESULT 32
ADD56532
ID ADD56532 standard; DNA; 21 BP.
XX
AC ADD56532;
XX
DT 15-JAN-2004 (first entry)
XX
DE Human gene expression analysis multiplex Start-PCR primer #52.
XX
KW Gene expression; multiplex standardised reverse transcriptase-PCR;
KW Start-PCR; high density oligonucleotide array; cDNA array;
KW small biological sample; fine needle aspirate biopsy;
KW laser captured microdissected material; human; primer; ss.
XX
OS Homo sapiens.

```

CC The invention relates to a cell-transducing HIV-1 Tat-superoxide
 CC dismutase fusion protein containing HIV-1 Tat residues 49-57 linked at
 CC the amino terminal of Cu/Zn-superoxide dismutase (Cu/Zn-SOD), or its
 CC derivative, to form a covalent bond. The invention also relates to a
 CC recombinant polynucleotide that encodes the Tat-superoxide dismutase
 CC fusion protein, in which the DNA encoding HIV-1 Tat residues 49-57 is
 CC linked at the 5'-terminal of Cu/Zn-superoxide dismutase cDNA or its
 CC derivative and a method of introducing the Tat-superoxide dismutase
 CC fusion protein into a cell, by expressing the expression vector in a
 CC microorganism, purifying the expressed Tat-superoxide dismutase fusion
 CC protein and adding the fusion protein to the cell. The sequences and
 CC methods are used for counteracting reactive oxygen species that cause damage
 CC to macromolecules in the human body. This sequence represents a PCR
 CC primer used to amplify DNA encoding the human Cu/Zn-SOD protein of the
 CC invention.

XX
 SQ Sequence 27 BP; 4 A; 7 C; 12 G; 4 T; 0 U; 0 Other;
 Query Match 2.5%; Score 22; DB 1; Length 27;
 Best Local Similarity 100.0%; Pred. No. 56;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 67 GCGCAGCAGGCGCGTGTGCGTG 88
 |||||
 Db 6 GCGCAGCAGGCGCGTGTGCGTG 27
 |||||

RESULT 28
 AD006572
 ID AD006572 standard; DNA; 27 BP.
 AC AD006572;
 XX
 XX
 DT 29-JUL-2004 (first entry)
 XX
 DE Fusion protein related human coding sequence PCR primer #1.
 XX
 XX fusion protein; transduction domain; superoxide dismutase; aging;
 KW inflammatory disease; PCR; ss; primer.
 KW
 OS Homo sapiens.
 XX
 XX WO2004039846-A1.
 XX
 XX 13-MAY-2004.
 XX
 XX 13-MAR-2003; 2003WO-KR000490.
 XX
 XX 31-OCT-2002; 2002KR-00066981.
 XX
 XX (UYHA-) UNIV HALLYM.
 XX
 XX Choi S, Park J, Han K, Choi J;
 XX
 XX WPI; 2004-376167/35.
 XX
 XX New transduction domain-target protein-transduction domain fusion protein
 XX having the ability to be transduced into a cell, useful for delivering a
 XX functional protein (i.e. superoxide dismutase) into a cell at enhanced
 XX efficiency.
 XX
 XX Disclosure; Page 38; 47pp; English.
 XX
 XX The present invention relates to a transduction domain-target protein-
 XX transduction domain fusion protein having the ability to be transduced
 XX into a cell, where the transduction domain is covalently bonded to each
 XX of the amino- and carboxyl-terminal ends of the target protein. The
 XX fusion protein is useful for delivering a functional protein or peptide
 XX (i.e. superoxide dismutase) into a cell at enhanced efficiency. The
 XX composition may be used in protein therapy where the superoxide dismutase
 XX playing a main role in removing reactive oxygen species is delivered into
 XX cells to treat diseases. It may be used in cosmetic and health food
 XX industries, in addition to treating various diseases, such as aging or

CC inflammatory diseases. The present sequence is a PCR primer used in the
 CC exemplification of the invention.

XX
 SQ Sequence 27 BP; 4 A; 7 C; 12 G; 4 T; 0 U; 0 Other;
 Query Match 2.5%; Score 22; DB 1; Length 27;
 Best Local Similarity 100.0%; Pred. No. 56;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 67 GCGCAGCAGGCGCGTGTGCGTG 88
 |||||
 Db 6 GCGCAGCAGGCGCGTGTGCGTG 27
 |||||

RESULT 29
 ADQ74974
 ID ADQ74974 standard; DNA; 27 BP.
 XX
 AC ADQ74974;
 XX
 XX
 DT 09-SEP-2004 (first entry)
 XX
 DE Tat-pyridoxal kinase fusion protein associated primer seqid 3.
 XX
 XX cell-transduction; Tat-pyridoxal kinase fusion protein; HIV-1; Tat;
 KW pyridoxal kinase; PK; growth delay; alopecia; anaemia; seizure;
 KW convulsion; Epilepsy; Parkinsonism; Huntington's disease; Depression;
 KW PCR; primer; ss.
 XX
 XX Homo sapiens.
 OS
 XX
 XX KR2003090457-A.
 XX
 XX 28-NOV-2003.
 PD
 XX
 XX 24-MAY-2002; 2002KR-00028940.
 PF
 XX
 XX 24-MAY-2002; 2002KR-00028940.
 PR
 XX
 XX (BAEK/) BAEK N I.
 PA (CHOS/) CHO S W.
 PA (CHOI/) CHOI S Y.
 PA (KANG/) KANG J H.
 PA (KWON/) KWON O S.
 PA (LEEK/) LEE K S.
 PA (PARK/) PARK J S.
 XX
 XX Baek NI, Han JH, Cho SM, Choi SY, Kang JH, Kim AY, Kim CG;
 PI Kim DW, Kim JA, Kwon OS, Lee KS, Lee YJ, Park JS, Yoon CS;
 XX
 XX WPI; 2004-255654/24.
 XX
 XX Cell-transducing hiv-1 tat-pyridoxal kinase fusion protein and the use
 XX thereof.
 PT
 PT
 XX
 PS Example 1; SEQ ID NO 3; 19pp; Korean.
 XX
 XX The invention describes a cell-transducing HIV-1 Tat-pyridoxal kinase
 XX fusion protein, wherein HIV-1 Tat 49-57 residues are covalently bound to
 XX the amino terminal of the pyridoxal kinase. The protein is useful for
 XX cell-transducing pyridoxal kinase (PK) for protein therapy. A recombinant
 XX polynucleotide encoding the cell-transducing HIV-1 Tat-pyridoxal kinase
 XX fusion protein has the nucleotide sequence of SEQ ID NO: 6. An expression
 XX vector for expressing the cell-transducing HIV-1 Tat-pyridoxal kinase
 XX fusion protein contains the recombinant polynucleotide of SEQ ID NO: 6.
 XX The cell-transducing HIV-1 Tat-pyridoxal kinase fusion protein is useful
 XX for treatment of growth delay, alopecia, anaemia, seizures, convulsions,
 XX Epilepsy, Parkinsonism, Huntington's disease and Depression. This
 XX sequence represents a primer used in the creation of the HIV-1 Tat-
 XX pyridoxal kinase fusion protein of the invention.
 XX
 XX Sequence 27 BP; 4 A; 7 C; 12 G; 4 T; 0 U; 0 Other;


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PN WO2004039846-A1.
XX
XX 13-MAY-2004.
XX
XX 13-MAR-2003; 2003WO-KR000490.
XX
XX 31-OCT-2002; 2002KR-00066981.
XX
XX (UYHA-) UNIV HALLYM.
XX
XX Choi S, Park J, Han K, Choi J;
XX WPI; 2004-376167/35.
XX
XX New transduction domain-target protein-transduction domain fusion protein
PT having the ability to be transduced into a cell, useful for delivering a
PT functional protein (i.e. superoxide dismutase) into a cell at enhanced
PT efficiency.
XX
XX Disclosure; Page 38; 47pp; English.
XX
XX The present invention relates to a transduction domain-target protein-
CC transduction domain fusion protein having the ability to be transduced
CC into a cell, where the transduction domain is covalently bonded to each
CC of the amino- and carboxyl-terminal ends of the target protein. The
CC fusion protein is useful for delivering a functional protein or peptide
CC (i.e. superoxide dismutase) into a cell at enhanced efficiency. The
CC composition may be used in protein therapy where the superoxide dismutase
CC playing a main role in removing reactive oxygen species is delivered into
CC cells to treat diseases. It may be used in cosmetic and health food
CC industries, in addition to treating various diseases, such as aging or
CC inflammatory diseases. The present sequence is a PCR primer used in the
CC exemplification of the invention.
XX
XX Sequence 27 BP; 6 A; 7 C; 6 G; 8 T; 0 U; 0 Other;
SQ
Query Match 2.5%; Score 22.2; DB 1; Length 27;
Best Local Similarity 88.9%; Pred. No. 53;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 509 GTAATTGGGATCGCCCAATAACATTC 535
DB 27 GTAATTGGGATCGCCCAATAAGGATCC 1

RESULT 24
ADQ74975/c
XX ADQ74975 standard; DNA; 27 BP.
XX
XX AC ADQ74975;
XX
XX 09-SEP-2004 (first entry)
XX
XX Tat-pyridoxal kinase fusion protein associated primer seqid 4.
XX
XX cell-transduction; Tat-pyridoxal kinase fusion protein; HIV-1; Tat;
XX pyridoxal kinase; PK; growth delay; alopecia; anaemia; seizure;
XX convulsion; Epilepsy; Parkinsonism; Huntington's disease; Depression;
XX PCR; primer; ss.
XX
XX Homo sapiens.
XX
XX KR2003090457-A.
XX
XX 28-NOV-2003.
XX
XX 24-MAY-2002; 2002KR-00028940.
XX
XX 24-MAY-2002; 2002KR-00028940.
XX
XX (BAEK/) BAEK N.I.
XX (CHOS/) CHO S W.
XX (CHOI/) CHOI S Y.
XX

```

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PA (KANG/) KANG J H.
PA (KWON/) KWON O S.
PA (LEEK/) LEE K S.
PA (PARK/) PARK J S.
XX
XX Baek NI, Ban JH, Cho SW, Choi SY, Kang JH, Kim AY, Kim CG;
XX Kim DW, Kim JA, Kwon OS, Lee KS, Lee YJ, Park JS, Yoon CS;
XX WPI; 2004-255654/24.
XX
XX Cell-transducing hiv-1 tat-pyridoxal kinase fusion protein and the use
XX thereof.
XX
XX Example 1; SEQ ID NO 4; 19pp; Korean.
XX
XX The invention describes a cell-transducing HIV-1 Tat-pyridoxal kinase
CC fusion protein, wherein HIV-1 Tat 49-57 residues are covalently bound to
CC the amino terminal of the pyridoxal kinase. The protein is useful for
CC cell-transducing pyridoxal kinase (PK) for protein therapy. A recombinant
CC polynucleotide encoding the cell-transducing HIV-1 Tat-pyridoxal kinase
CC fusion protein has the nucleotide sequence of SEQ ID NO: 6. An expression
CC vector for expressing the cell-transducing HIV-1 Tat-pyridoxal kinase
CC fusion protein contains the recombinant polynucleotide of SEQ ID NO: 6.
CC The cell-transducing HIV-1 Tat-pyridoxal kinase fusion protein is useful
CC for treatment of growth delay, alopecia, anaemia, seizures, convulsions,
CC Epilepsy, Parkinsonism, Huntington's disease and Depression. This
CC sequence represents a primer used in the creation of the HIV-1 Tat-
CC pyridoxal kinase fusion protein of the invention.
XX
XX Sequence 27 BP; 6 A; 7 C; 6 G; 8 T; 0 U; 0 Other;
SQ
Query Match 2.5%; Score 22.2; DB 1; Length 27;
Best Local Similarity 88.9%; Pred. No. 53;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 509 GTAATTGGGATCGCCCAATAACATTC 535
DB 27 GTAATTGGGATCGCCCAATAAGGATCC 1

RESULT 25
ADG73925
XX ADG73925 standard; DNA; 22 BP.
XX
XX AC ADG73925;
XX
XX 11-MAR-2004 (first entry)
XX
XX Human superoxide dismutase forward PCR primer.
XX
XX Multiple sclerosis; human; diagnosis; superoxide dismutase; PCR; primer;
XX ss; enzyme.
XX
XX Homo sapiens.
XX
XX WO2003102227-A1.
XX
XX 11-DEC-2003.
XX
XX 02-JUN-2003; 2003WO-AU000684.
XX
XX 31-MAY-2002; 2002AU-00002719.
XX
XX (UYGR-) UNIV GRIFFITH.
XX
XX Griffiths LR, Tajouri L;
XX WPI; 2004-081938/08.
XX
XX Determining whether an individual is predisposed to multiple sclerosis
XX (MS), for treating MS, by determining an amount of one or more MS-
XX associated nucleic acids or proteins in one or more cells or tissues
XX obtained from the individual.
XX

```

OS Homo sapiens.
 PN WO200210219-A1.
 XX
 PD 07-FEB-2002.
 XX
 PF 21-MAY-2001; 2001WO-KR000835.
 XX
 PR 26-JUL-2000; 2000KR-00043022.
 PR 08-FEB-2001; 2001KR-00006178.
 PR 03-MAR-2001; 2001KR-00010981.
 PR 19-MAR-2001; 2001KR-00014147.
 XX
 PA (CHOS/) CHO S.
 PA (CHOI/) CHOI S.
 PA (PARK/) PARK J.
 PA (KWON/) KWON H.
 PA (KANG/) KANG J.
 PA (KANG/) KANG T.
 PA (WONM/) WON M.
 PA (HANK/) HAN K.
 PA (LEEK/) LEE K.
 XX
 PI Choi S, Park J, Kwon H, Kang J, Kang T, Won M, Han K, Lee K;
 XX WPI; 2002-188723/24.
 DR
 XX Novel oligolysine transport domain, useful for introducing oligolysine-
 PT cargo molecule complex into a cell or cell nucleus, is covalently bound
 PT to a cargo molecule that is not penetrating into cell or cell nucleus.
 XX
 XX Example 10; Page 27; 70pp; English.
 PS
 XX The invention relates to oligolysine transport domain, an oligolysine
 XX vector and an oligolysine-cargo molecule complex each of which being
 CC comprised of a plurality of lysine residues. The oligolysine transducing
 CC domain-binding fusion protein is efficiently transducible into cytoplasm
 CC and biologically active. An expression vector comprising a cargo molecule
 CC cDNA is useful for introducing oligolysine-cargo molecule complex into a
 CC cell or cell nucleus. Cargo molecule or expression vector comprising a
 CC cargo molecule cDNA is useful for preventing and treating SOD related
 CC diseases e.g. glomerulonephritis, autoimmune disease, angitis, apoplexy,
 CC myocardial infarction, dysrhythmia, angina pectoris, idiopathic
 CC haemochromatosis, disease occurred from radiation treatment, progeria,
 CC disease-related aging, sickle-cell anaemia, malaria, pulmonary emphysema,
 CC myocardiopathy, autoimmune nephrotic syndrome, Alzheimer's disease,
 CC Betelnut-related oral cancer, Parkinson's disease, hyperbaric oxygen
 CC disease and cataract. The fusion DNA of the invention is used in gene
 CC therapy. The present sequence is a PCR primer used to amplify human Zn-
 CC SOD DNA. This primer is used to prepare vector expressing Lys-SOD fusion
 CC protein
 XX
 SQ Sequence 27 BP; 6 A; 7 C; 6 G; 8 T; 0 U; 0 Other;
 Query Match 2.5%; Score 22.2; DB 1; Length 27;
 Best Local Similarity 88.9%; Pred. No. 53;
 Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 509 GTAATTGGGATCGCCCAATTAACATTC 535
 Db 27 GTAATTGGGATCGCCCAATTAAGGATCC 1
 RESULT 22
 ADO59161/c
 ID ADO59161 standard; DNA; 27 BP.
 XX
 AC ADO59161;
 XX
 DT 15-JUL-2004 (first entry)
 XX
 DE Human Cu/Zn-superoxide dismutase (Cu/Zn-SOD) DNA PCR primer #2.
 XX

KW Human; Tat; superoxide dismutase; Tat-superoxide dismutase; PCR; ss;
 KW Cu/Zn-superoxide dismutase; Cu/Zn-SOD; reactive oxygen species; primer.
 XX Homo sapiens.
 PN KR2002010445-A.
 XX
 PD 04-FEB-2002.
 XX
 PF 03-MAR-2001; 2001KR-00010980.
 XX
 PR 26-JUL-2000; 2000KR-00043039.
 PR 02-FEB-2001; 2001KR-0005094.
 XX
 PA (CHOI/) CHOI S Y.
 PA (KANG/) KANG J H.
 PA (KWAN/) KWAN H I.
 PA (PARK/) PARK J S.
 XX
 PI Choi SY, Eum WS, Jang HU, Kang JH, Kang TC, Kwan HI, Lee BR;
 PI Park JS, Ryu JY, Won MH;
 XX WPI; 2003-436529/41.
 DR
 XX Cell-transducing HIV-1 Tat-superoxide dismutase fusion protein, for
 PT countering reactive oxygen species, contains HIV-1 Tat 49-57 residues
 PT linked at amino terminal of Cu, Zn-superoxide dismutase to form covalent
 PT bond.
 XX
 PS Example 1; SEQ ID NO 4; 22pp; Korean.
 XX
 CC The invention relates to a cell-transducing HIV-1 Tat-superoxide
 CC dismutase fusion protein containing HIV-1 Tat residues 49-57 linked at
 CC the amino terminal of Cu/Zn-superoxide dismutase (Cu/Zn-SOD), or its
 CC derivative, to form a covalent bond. The invention also relates to a
 CC recombinant polynucleotide that encodes the Tat-superoxide dismutase
 CC fusion protein, in which the DNA encoding HIV-1 Tat residues 49-57 is
 CC linked at the 5'-terminal of Cu/Zn-superoxide dismutase cDNA or its
 CC derivative and a method of introducing the Tat-superoxide dismutase
 CC fusion protein into a cell, by expressing the expression vector in a
 CC microorganism, purifying the expressed Tat-superoxide dismutase fusion
 CC protein and adding the fusion protein to the cell. The sequences and
 CC methods are used for countering reactive oxygen species that cause damage
 CC to macromolecules in the human body. This sequence represents a PCR
 CC primer used to amplify DNA encoding the human Cu/Zn-SOD protein of the
 CC invention.
 XX
 SQ Sequence 27 BP; 6 A; 7 C; 6 G; 8 T; 0 U; 0 Other;
 Query Match 2.5%; Score 22.2; DB 1; Length 27;
 Best Local Similarity 88.9%; Pred. No. 53;
 Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 509 GTAATTGGGATCGCCCAATTAACATTC 535
 Db 27 GTAATTGGGATCGCCCAATTAAGGATCC 1
 RESULT 23
 ADO06573/c
 ID ADO06573 standard; DNA; 27 BP.
 XX
 AC ADO06573;
 XX
 DT 29-JUL-2004 (first entry)
 XX
 DE Fusion protein related human coding sequence PCR primer #2.
 XX
 KW fusion protein; transduction domain; superoxide dismutase; aging;
 KW inflammatory disease; PCR; ss; primer.
 XX
 OS Homo sapiens.
 XX

XX WO2003016527-A2.
 PN
 XX
 XX 27-FEB-2003.
 PD
 XX
 XX 13-AUG-2002; 2002WO-EP009079.
 PF
 XX
 XX 14-AUG-2001; 2001BB-00000545.
 PR
 XX
 XX (PROB-) PROBIOX SA.
 PA
 XX
 XX Pincemail J, Plette J, Marechal D;
 PI
 XX
 XX WPI; 2003-268334/26.
 DR
 XX
 XX Determining oxidative stress markers in a group of individuals by
 PT comparing the amount of each of the oxidative stress markers obtained
 PT from each of the group of individuals with that of the group of healthy
 PT individuals.
 PT
 XX Disclosure; Page 34; 67pp; English.
 PS
 XX The invention relates to a method for determining oxidative stress
 CC markers in a group of individuals. The method comprises determining the
 CC risk factor for oxidative stress in the group, measuring the amount of at
 CC least 10 different oxidative stress markers in a sample obtained from
 CC each of the group of individuals, and comparing the amount of each of the
 CC oxidative stress markers with the amount of each of the oxidative stress
 CC markers measured in a group of healthy individuals to determine whether
 CC the oxidative stress markers are increased or decreased in the group of
 CC individuals carrying a risk factor for oxidative stress relative to
 CC healthy individuals. This sequence represents a PCR primer used to detect
 CC oxidative stress
 CC
 XX Sequence 23 BP; 8 A; 4 C; 6 G; 5 T; 0 U; 0 Other;
 SQ
 Query Match 2.6%; Score 23; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 38;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 321 GCAATGTGACTGCTGCACAAAGAT 343
 Db 1 GCAATGTGACTGCTGCACAAAGAT 23
 RESULT 20
 AAD13501
 ID AAD13501 standard; DNA; 25 BP.
 XX
 XX AAD13501;
 AC
 XX
 DT 06-NOV-2001 (first entry)
 XX
 XX Rat superoxide dismutase (SOD) probe sense strand.
 DE
 XX Antioxidative enzyme; catalase; CAT; superoxide dismutase; SOD; therapy;
 XX reactive oxygen species; ROS; free radical; dietary supplement; stroke;
 XX AP-1 transcription factor; renal reperfusion damage; cerebral ischaemia;
 XX myocardial infarction; heart attack; pain; atherosclerosis; neuroleptic;
 XX trauma; premature aging; neurodegenerative disease; Tardive dyskinesia;
 XX Parkinson's disease; amyotrophic lateral sclerosis; Alzheimer's disease;
 XX arthritis; inflammatory disease; diabetes; ulcerative colitis; cataract;
 XX senility; Down's syndrome; macular degeneration; septic shock; epilepsy;
 XX polytraumatic shock; schizophrenia; antileuk; clozapine; Huntington's disease;
 XX cardiatic; cerebroprotective; vulnerable; neurotropic; Huntington's disease;
 XX anticonvulsant; neuroprotective; antiarthritic; antiinflammatory; burn;
 XX cytosstatic; leukaemia; ophthalmological; immunosuppressive; probe; ss.
 XX
 OS Rattus sp.
 XX
 XX WO200136454-A1.
 PN
 XX

PD 25-MAY-2001.
 XX
 XX 17-NOV-2000; 2000WO-US031764.
 PF
 XX
 XX 18-NOV-1999; 99US-0166381P.
 PR
 XX
 XX (CERE-) CEREMEDIX INC.
 PA
 XX
 XX Shashoua VR;
 PI
 XX
 XX WPI; 2001-496512/54.
 DR
 XX
 XX Novel peptide compound that up regulates expression of a gene encoding
 PT antioxidative enzymes, used to treat or prevent conditions caused by
 PT undesirable elevation of reactive oxygen species and other free radicals.
 PT
 XX Example 2; Page 46; 102pp; English.
 PS
 XX The invention relates to peptide compounds and methods for upregulating
 CC expression of a gene encoding an antioxidative enzyme, such as catalase
 CC (CAT) or superoxide dismutase (SOD), to counteract harmful oxidative
 CC effects of reactive oxygen species (ROS) and other free radicals. The
 CC peptides are used as components of pharmaceuticals and dietary
 CC supplements. The peptides are used to treat or to prevent diseases and
 CC conditions characterised by undesirable elevation of ROS and other free
 CC radicals, to upregulate AP-1 transcription factor gene expression and to
 CC treat pain. The disease or conditions include renal reperfusion damage, and
 CC cerebral ischaemia (stroke), myocardial infarction (heart attack), head
 CC trauma, atherosclerosis, brain trauma, oxygen toxicity in premature
 CC infants, premature aging, spinal cord trauma, neurodegenerative diseases,
 CC Huntington's disease, Parkinson's disease, amyotrophic lateral sclerosis,
 CC Alzheimer's disease, arthritis and other inflammatory diseases, diabetes,
 CC ulcerative colitis, human leukaemia and other cancers characterised by
 CC elevation of ROS or free radicals, age-related elevation of ROS or free
 CC radicals, senility, Down's syndrome, macular degeneration, cataracts,
 CC septic shock, polytraumatic shock, schizophrenia, burn injuries,
 CC epilepsy, radiation and/or drug-induced elevation of ROS and free
 CC radicals, where the drug is a neuroleptic or a drug such as clozapine
 CC defined in the specification and tardive dyskinesia. The present sequence
 CC is rat SOD probe sense strand
 XX
 SQ Sequence 25 BP; 5 A; 5 C; 10 G; 5 T; 0 U; 0 Other;
 Query Match 2.6%; Score 22.4; DB 1; Length 25;
 Best Local Similarity 95.8%; Pred. No. 47;
 Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 312 GAGACTTGGCAATGTGACTGCTG 335
 Db 1 GAGACTTGGCAATGTGACTGCTG 24
 RESULT 21
 AAD29666/C
 ID AAD29666 standard; DNA; 27 BP.
 XX
 XX AAD29666;
 AC
 XX
 DT 17-MAY-2002 (first entry)
 XX
 XX Human Zn-SOD amplifying reverse primer.
 DE
 XX Oligolysine; transducing domain; oligolysine-cargo molecule complex;
 XX SOD related disease; angitis; glomerulonephritis; autoimmune disease;
 XX apoplexy; myocardial infarction; dysrhythmia; angina pectoris; malaria;
 XX cytoplasm; idiopathic haemochromatosis; radiation treatment; progeria;
 XX disease-related aging; sickle-cell anaemia; pulmonary emphysema;
 XX myocardiodiopathy; autoimmune nephrotic syndrome; Alzheimer's disease;
 XX betelnut-related oral cancer; hyperbaric oxygen disease; gene therapy;
 XX Parkinson's disease; cataract; nephrotropic; cytosstatic; neurotropic;
 XX hepatotrophic; neuroprotective; ophthalmological; immunosuppressive;
 XX protozoacide; cardiant; human; Zn-SOD; PCR primer; ss.

CC The invention relates to a composition that comprises 2-methoxyestradiol
 CC and an agent that increases intracellular superoxide anion. 2-
 CC methoxyestradiol inhibits superoxide dismutase (SOD) including cytosolic
 CC SOD1 (CuZn-SOD) and mitochondrial SOD2 (Mn-SOD). It compromises the
 CC cell's ability to eliminate superoxide anion. The composition can be used
 CC for killing cells (preferably cancer cells derived from a solid tumour
 CC especially leukemia cells) in humans; for treating cancer in humans.
 CC Sequences ABA94685-686 represent PCR primers for amplifying SOD1 cDNA
 XX
 SQ Sequence 23 BP; 9 A; 9 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 2.6%; Score 23; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 38;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 486 CTGGAAGTCGTTGGCTTGCTGGT 508
 DB 23 CTGGAAGTCGTTGGCTTGCTGGT 1

RESULT 17
 ABA94685
 ID ABA94685 standard; DNA; 23 BP.
 AC ABA94685;
 XX
 DT 23-APR-2002 (first entry)
 XX
 DE Superoxide dismutase SOD1 cDNA amplifying forward primer.
 XX
 KW 2-methoxyestradiol; superoxide anion; superoxide dismutase; SOD;
 KW cytosolic; cancer; tumour; SOD1; PCR primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200203979-A2.
 XX
 PD 17-JAN-2002.
 XX
 PF 11-JUL-2001; 2001WO-US022332.
 XX
 PR 12-JUL-2000; 2000US-0217589P.
 PR 05-JUL-2001; 2001US-00899807.
 XX
 PA (TEXA) UNIV TEXAS SYSTEM.
 XX
 PI Huang P, Plunkett WK, Feng L;
 XX
 DR WPI; 2002-164592/21.

Composition for treating cancer comprises 2-methoxyestradiol and an agent
 that increases intracellular superoxide anion.
 Example 1; Page 37; 91pp; English.

The invention relates to a composition that comprises 2-methoxyestradiol
 and an agent that increases intracellular superoxide anion. 2-
 methoxyestradiol inhibits superoxide dismutase (SOD) including cytosolic
 SOD1 (CuZn-SOD) and mitochondrial SOD2 (Mn-SOD). It compromises the
 cell's ability to eliminate superoxide anion. The composition can be used
 for killing cells (preferably cancer cells derived from a solid tumour
 especially leukemia cells) in humans; for treating cancer in humans.
 Sequences ABA94685-686 represent PCR primers for amplifying SOD1 cDNA
 XX
 SQ Sequence 23 BP; 5 A; 5 C; 9 G; 4 T; 0 U; 0 Other;

Query Match 2.6%; Score 23; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 38;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 71 ACCAAGCCGCTGCTGCTGAA 93
 DB 1 ACCAAGCCGCTGCTGCTGAA 23

RESULT 18
 ABX12365/c
 ID ABX12365 standard; DNA; 23 BP.
 XX
 AC ABX12365;
 XX
 DT 10-MAY-2003 (first entry)
 XX
 DE Oxidative stress detection PCR primer #6.
 XX
 KW Oxidative stress detection; PCR; primer; ss; risk factor.
 OS Homo sapiens.
 PN WO2003016527-A2.
 XX
 PD 27-FEB-2003.
 XX
 PF 13-AUG-2002; 2002WO-EP009079.
 XX
 PR 14-AUG-2001; 2001BE-00000545.
 XX
 PA (PROB-) PROBIOX SA.
 XX
 PI Pincemail J; Piette J, Marechal D;
 XX
 DR WPI; 2003-268334/26.
 XX
 PT Determining oxidative stress markers in a group of individuals by
 PT comparing the amount of each of the oxidative stress markers obtained
 PT from each of the group of individuals with that of the group of healthy
 PT individuals.
 XX
 PS Disclosure; Page 34; 67pp; English.
 XX
 CC The invention relates to a method for determining oxidative stress
 CC markers in a group of individuals. The method comprises determining the
 CC risk factor for oxidative stress in the group, measuring the amount of at
 CC least 10 different oxidative stress markers in a sample obtained from
 CC each of the group of individuals, and comparing the amount of each of the
 CC oxidative stress markers with the amount of each of the oxidative stress
 CC markers measured in a group of healthy individuals to determine whether
 CC the oxidative stress markers are increased or decreased in the group of
 CC individuals carrying a risk factor for oxidative stress relative to
 CC healthy individuals. This sequence represents a PCR primer used to detect
 CC oxidative stress
 XX
 SQ Sequence 23 BP; 6 A; 4 C; 7 G; 6 T; 0 U; 0 Other;
 Query Match 2.6%; Score 23; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 38;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 383 CTCCTCAGGAGACCATTCATCAT 405
 DB 23 CTCCTCAGGAGACCATTCATCAT 1
 RESULT 19
 ABX12364
 ID ABX12364 standard; DNA; 23 BP.
 XX
 AC ABX12364;
 XX
 DT 10-MAY-2003 (first entry)
 XX
 DE Oxidative stress detection PCR primer #5.
 XX
 KW Oxidative stress detection; PCR; primer; ss; risk factor.
 OS Homo sapiens.

XX DE Human SOD1 exon 5 PCR primer #2.
 XX KW SOD1; SOD2; SOD3; Cu/Zn; superoxide dismutase; mitochondrial; treatment;
 KW extracellular; neurodegenerative disease; amyotrophic lateral sclerosis;
 KW familial; ALS; PCR primer; ss.
 XX OS Synthetic.
 OS Homo sapiens.
 XX US5849290-A.
 XX PD 15-DEC-1998.
 XX PF 07-JUN-1995; 95US-00486953.
 XX PR 26-FEB-1993; 93US-00023980.
 PR 28-FEB-1994; 94US-00204052.
 XX (MASI) MASSACHUSETTS INST TECHNOLOGY.
 PA (GEO) GEN HOSPITAL CORP.
 XX Rosen DR, Brown R, Horvitz HR;
 XX WPI; 1999-069657/06.
 XX Treatment of neurodegenerative disease - by administering super-oxide
 PT dismutase.
 XX Disclosure; Fig 5; 53pp; English.
 XX AAV73826-V73835 are PCR primers used in the amplification of a novel
 CC human SOD1 gene which encodes a Cu/Zn SOD (superoxide dismutase) protein.
 CC This protein can be used in a method for treating a neurodegenerative
 CC disease particularly familial amyotrophic lateral sclerosis (ALS)
 XX Sequence 24 BP; 9 A; 2 C; 9 G; 4 T; 0 U; 0 Other;
 SQ
 Query Match 2.7%; Score 24; DB 1; Length 24;
 Best Local Similarity 100.0%; Pred. No. 33;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 556 CCCTTAACCTCATCTGTTATCCTGC 579
 Db 24 CCCTTAACCTCATCTGTTATCCTGC 1
 RESULT 15
 ADO55698/c
 ID ADO55698 standard; DNA; 24 BP.
 XX ADO55698;
 AC ADO55698;
 XX 15-JUL-2004 (first entry)
 DT Human cytosolic superoxide dismutase (Cu/ZnSOD) DNA, SOD1 PCR primer #10.
 XX Human; cytosolic superoxide dismutase; Cu/ZnSOD; SOD; PCR; ss;
 KW neurodegenerative disease; cell death disease; FALS; neoplasm; primer.
 XX Homo sapiens.
 OS US6723893-B1.
 PN 20-APR-2004.
 XX 28-FEB-1994; 94US-00204052.
 XX 26-FEB-1993; 93US-00023980.
 XX (MASI) MASSACHUSETTS INST TECHNOLOGY.
 PA (GEO) GEN HOSPITAL CORP INC.
 XX

PI Brown R, Horvitz HR, Rosen DR;
 XX WPI; 2004-326924/30.
 XX New transgenic mouse having somatic and germ cells containing a transgene
 PT encoding and expressing a neurodegenerative disease-causing mutant SOD-1
 PT polypeptide, useful for research or drug development.
 XX Disclosure; SEQ ID NO 13; 54pp; English.
 XX The invention relates to a transgenic mouse having somatic and germ cells
 CC containing a transgene encoding and expressing a neurodegenerative
 CC disease-causing mutant SOD1 polypeptide. The invention also relates to a
 CC method of diagnosing an increased likelihood of developing cell death
 CC disease in a patient, a kit for the diagnosis of cell death disease in a
 CC patient, a method of treating a patient with a disease involving a mutant
 CC SOD encoding gene, antibodies reactive with a FALS polypeptide, a method
 CC of treating a patient with a neoplasm, a bacterial or yeast cell
 CC containing a purified nucleic acid derived from a FALS gene, a purified
 CC DNA encoding a purified FALS polypeptide and a purified FALS polypeptide.
 CC The SOD1 polypeptide is a murine or human SOD1 polypeptide. The
 CC expression of the mutant polypeptide is under the regulation of the wild-
 CC type promoter. The transgenic mouse is useful for research or drug
 CC development. This sequence represents a PCR primer used to amplify SOD1
 CC DNA encoding the human cytosolic superoxide dismutase (Cu/ZnSOD)
 CC polypeptide.
 SQ Sequence 24 BP; 9 A; 2 C; 9 G; 4 T; 0 U; 0 Other;
 Query Match 2.7%; Score 24; DB 1; Length 24;
 Best Local Similarity 100.0%; Pred. No. 33;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 556 CCCTTAACCTCATCTGTTATCCTGC 579
 Db 24 CCCTTAACCTCATCTGTTATCCTGC 1
 RESULT 16
 ABA94686/c
 ID ABA94686 standard; DNA; 23 BP.
 XX ABA94686;
 AC ABA94686;
 XX 23-APR-2002 (first entry)
 DT Superoxide dismutase SOD1 cDNA amplifying reverse primer.
 XX 2-methoxyestradiol; superoxide anion; superoxide dismutase; SOD;
 KW cytosolic; cancer; tumour; SOD1; PCR primer; ss.
 XX Homo sapiens.
 OS WO200203979-A2.
 PN 17-JAN-2002.
 XX 11-JUL-2001; 2001WO-US022332.
 PF 12-JUL-2000; 2000US-0217589P.
 PR 05-JUL-2001; 2001US-00899807.
 XX (TEXA) UNIV TEXAS SYSTEM.
 PA Huang P, Plunkett WK, Feng L;
 PI WPI; 2002-164592/21.
 XX Composition for treating cancer comprises 2-methoxyestradiol and an agent
 PT that increases intracellular superoxide anion.
 XX Example 1; Page 37; 91pp; English.
 XX

CC comprising the populations for each physiological source to identify
 CC differences in the population, where the comparison is preferably
 CC performed by hybridising the labeled NAs for each of the distinct
 CC physiological sources to an array of probe NAs stably associated with the
 CC surface of a substrate to produce a hybridisation pattern for each of the
 CC sources, and comparing the patterns for each of the sources, where
 CC differential gene expression assays are utilised in differential
 CC expression analysis of diseased a normal tissue e.g. neoplastic a normal
 CC tissue, or different tissue or subissue types. The present sequence is a
 CC human gene specific PCR primer used in the method of the invention. Note:
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from USPTO
 CC at <http://wipo.segdata.uspto.gov/sequence.html?docID=6352829B1>
 XX
 SQ Sequence 28 BP; 7 A; 5 C; 9 G; 7 T; 0 U; 0 Other;

Query Match 3.2%; Score 28; DB 1; Length 28;
 Best Local Similarity 100.0%; Pred. No. 17;
 Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 376 GATCTCACTCTCAGGAGACCATTCGATC 403
 |||||
 Db 28 GATCTCACTCTCAGGAGACCATTCGATC 1

RESULT 12
 ABA94683/c
 ID ABA94683 standard; DNA; 27 BP.
 AC ABA94683;
 XX
 DT 23-APR-2002 (first entry)
 DE Antisense S-oligo against superoxide dismutase SOD1.
 KW 2-methoxyestradiol; superoxide anion; superoxide dismutase; SOD;
 KW cytostatic; cancer; tumour; SOD1; antisense; ss.
 OS Synthetic.
 XX
 PN WO200203979-A2.
 XX
 PD 17-JAN-2002.
 XX
 PF 11-JUL-2001; 2001WO-US022332.
 XX
 PR 12-JUL-2000; 2000US-0217589P.
 PR 05-JUL-2001; 2001US-00899807.
 XX
 PA (TEXA) UNIV TEXAS SYSTEM.
 XX
 PI Huang P, Plunkett WK, Feng L;
 XX
 DR WPI; 2002-164592/21.
 XX

Composition for treating cancer comprises 2-methoxyestradiol and an agent
 PT that increases intracellular superoxide anion.
 PT
 PS Disclosure; Page 6; 91pp; English.
 XX
 CC The invention relates to a composition that comprises 2-methoxyestradiol
 CC and an agent that increases intracellular superoxide anion. 2-
 CC methoxyestradiol inhibits superoxide dismutase (SOD) including cytosolic
 CC SOD1 (CuZn-SOD) and mitochondrial SOD2 (Mn-SOD). It compromises the
 CC cell's ability to eliminate superoxide anion. The composition can be used
 CC for killing cells (preferably cancer cells derived from a solid tumour
 CC especially leukemia cells) in humans; for treating cancer in humans.
 CC Sequences ABA94683-684 represent antisense S-oligos directed against SOD1
 XX
 SQ Sequence 27 BP; 6 A; 11 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 3.1%; Score 27; DB 1; Length 27;
 Best Local Similarity 100.0%; Pred. No. 20;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 61 AGTTATGGCGACGAAGCGCGTGTGCGT 87
 |||||
 Db 27 AGTTATGGCGACGAAGCGCGTGTGCGT 1

RESULT 13
 AAQ67485/c
 ID AAQ67485 standard; DNA; 24 BP.
 XX
 AC AAQ67485;
 XX

DT 25-MAR-2003 (revised)
 DT 31-MAY-1995 (first entry)
 XX
 DE PCR primer for human SOD1 exon 5.

XX Human superoxide dismutase; hSOD1; neurodegeneration;
 KW Alzheimer's disease; Parkinson's disease; Huntington's disease;
 KW Hallervorden-Spatz disease; olivopontocerebellar atrophy;
 KW familial amyotrophic lateral sclerosis; FALS; diagnosis; mutant SOD;
 KW SSCP analysis; ss.

OS Synthetic.
 XX
 PN WO9419493-A1.
 XX
 PD 01-SEP-1994.
 XX
 PF 28-FEB-1994; 94WO-US002089.
 XX
 PR 26-FEB-1993; 93US-00023980.
 XX

XX (GEO) GEN HOSPITAL CORP.
 PA (MASI) MASSACHUSETTS INST TECHNOLOGY.
 XX
 PI Brown R, Horvitz HR, Rosen DR;
 XX
 DR WPI; 1994-294353/36.
 XX
 PT Diagnosis, treatment and prevention of diseases of cell death - e.g.
 PT amyotrophic lateral sclerosis, which are the result of e.g. decreased SOD
 PT activity.
 XX
 PS Claim 8; Fig 5; 94pp; English.

XX The presence of a mutation in a gene encoding a superoxide dismutase
 CC (SOD1, SOD2 or SOD3) indicates an increased likelihood of developing a
 CC cell death disease, specifically a neurodegenerative disease. The DNA can
 CC be analysed to detect mutant SOD sequences. Analysis is pref. preceded by
 CC a PCR amplification step. AAQ67476- AAQ67485 are examples of PCR primers
 CC which are useful for diagnosis of diseases linked to SOD1 mutations.
 CC (Updated on 25-MAR-2003 to correct PN field.)
 XX
 SQ Sequence 24 BP; 9 A; 2 C; 9 G; 4 T; 0 U; 0 Other;

Query Match 2.7%; Score 24; DB 1; Length 24;
 Best Local Similarity 100.0%; Pred. No. 33;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 556 CCCTTAACCTCATCTGTATCTTCCTGC 579
 |||||
 Db 24 CCCTTAACCTCATCTGTATCTTCCTGC 1

RESULT 14
 AAV73835/c
 ID AAV73835 standard; DNA; 24 BP.
 XX
 AC AAV73835;
 XX

DT 24-FEB-1999 (first entry)

XX Example 4; SEQ ID NO 15; 61pp; English.

PS The present sequence is a human superoxide dismutase (SOD1) wild-type

XX sequence, which was used to demonstrate the method of the invention. The

CC invention provides methods of specifically inhibiting the expression of a

CC mutant allele, while preserving the expression of a co-expressed wild-

CC type allele, using RNA interference (RNAi). The methods are useful for

CC treating a subject having a disorder correlated with the presence of a

CC dominant gain of function mutant allele, e.g. amyotrophic lateral

CC sclerosis (ALS, caused by SOD mutation), Huntington's disease,

CC Alzheimer's disease, and Parkinson's disease (claimed). To test whether

CC small hairpin RNA (shRNA) can selectively block the expression of a

CC mutant but not wild-type SOD1 expression, a plasmid was constructed that

CC synthesised an shRNA ADO43056 homologous to a disease-causing mutant

CC SOD1. G93A (nucleotide change from G to C at nucleotide position 281,

CC placing a G-G mismatch at selective sites between the shRNA and wild-type

CC SOD1) under the control of a RNA polymerase III promoter. Results showed

CC that when co-transfected with either wild-type or mutant SOD1-GFP

CC plasmids, this construct triggered single-nucleotide selective RNAi of

CC mutant SOD1 in cultured cells.

XX

SQ Sequence 35 BP; 8 A; 6 C; 11 G; 10 T; 0 U; 0 Other;

Query Match 4.0%; Score 35; DB 1; Length 35;

Best Local Similarity 100.0%; Pred. No. 5.1;

Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 329 ACTGCTGACAAAGATGCTGGCCGATGCTCTAT 363

DB 1 ACTGCTGACAAAGATGCTGGCCGATGCTCTAT 35

RESULT 10

ABK66923

ID ABK66923 standard; DNA; 28 BP.

AC ABK66923;

XX

XX 02-JUL-2002 (first entry)

XX Human gene specific PCR primer #1011.

DE

XX Primer; ss; DNA microarray; differential expression analysis; human.

XX

XX Homo sapiens.

OS

XX US6352829-B1.

PN

XX 05-MAR-2002.

PD

XX 05-JAN-1999; 99US-00225928.

PF

XX 21-MAY-1997; 97US-00859998.

PR

XX (CLON-) CLONTECH LAB INC.

PA

XX Chenchik A, Johhadze G, Bibilashvilli R;

PI

XX WPI; 2002-314699/35.

DR

XX Producing sub-population of labeled nucleic acids, useful for analyzing

PT differences in RNA profiles between several different physiological

PT sources, using set of distinct gene specific primers.

XX

XX Example 3; SEQ ID NO 1011; 11pp; English.

PS The invention relates to producing a sub-population of labeled nucleic

CC acids (NAs) comprising contacting a NA sample from a physiological

CC source, with a pool of 50 distinct gene specific primers under suitable

CC conditions to enzymatically generate sub-population of NAs, where each

CC gene specific primer has a sequence complementary to a distinct mRNA, and

CC each labeled NA is generated using a single gene specific primer. The

CC method is useful for producing a sub-population of labeled NAs which is

CC useful for analysing the differences in the RNA profiles between several

CC different physiological sources, where the method comprises producing

CC subpopulation of labeled NAs for the different physiological sources,

CC method is useful for producing a sub-population of labeled NAs which is

CC useful for analysing the differences in the RNA profiles between several

CC different physiological sources, where the method comprises producing

CC subpopulation of labeled NAs for the different physiological sources,

CC comprising the populations for each physiological source to identify

CC differences in the population, where the comparison is preferably

CC performed by hybridising the labeled NAs for each of the distinct

CC physiological sources to an array of probe NAs stably associated with the

CC surface of a substrate to produce a hybridisation pattern for each of the

CC sources, and comparing the patterns for each of the sources, where

CC differential gene expression assays are utilised in differential

CC expression analysis of diseased or normal tissue e.g. neoplastic a normal

CC tissue, or different tissue or subtype types. The present sequence is a

CC human gene specific PCR primer used in the method of the invention. Note:

CC The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format directly from USPTO

CC at <http://wipo.seqdata.uspto.gov/sequence.html?DocID=6352829B1>

XX

SQ Sequence 28 BP; 8 A; 6 C; 8 G; 6 T; 0 U; 0 Other;

Query Match 3.2%; Score 28; DB 1; Length 28;

Best Local Similarity 100.0%; Pred. No. 17;

Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 106 AGTCGAGGCGATCATCAATTCGAGCAG 133

DB 1 AGTCGAGGCGATCATCAATTCGAGCAG 28

RESULT 11

ABK66924/C

ID ABK66924 standard; DNA; 28 BP.

AC ABK66924;

XX

XX 02-JUL-2002 (first entry)

XX Human gene specific PCR primer #1012.

DE

XX Primer; ss; DNA microarray; differential expression analysis; human.

XX

XX Homo sapiens.

OS

XX US6352829-B1.

PN

XX 05-MAR-2002.

PD

XX 05-JAN-1999; 99US-00225928.

PF

XX 21-MAY-1997; 97US-00859998.

PR

XX (CLON-) CLONTECH LAB INC.

PA

XX Chenchik A, Johhadze G, Bibilashvilli R;

PI

XX WPI; 2002-314699/35.

DR

XX Producing sub-population of labeled nucleic acids, useful for analyzing

PT differences in RNA profiles between several different physiological

PT sources, using set of distinct gene specific primers.

XX

XX Example 3; SEQ ID NO 1012; 11pp; English.

PS The invention relates to producing a sub-population of labeled nucleic

CC acids (NAs) comprising contacting a NA sample from a physiological

CC source, with a pool of 50 distinct gene specific primers under suitable

CC conditions to enzymatically generate sub-population of NAs, where each

CC gene specific primer has a sequence complementary to a distinct mRNA, and

CC each labeled NA is generated using a single gene specific primer. The

CC method is useful for producing a sub-population of labeled NAs which is

CC useful for analysing the differences in the RNA profiles between several

CC different physiological sources, where the method comprises producing

CC subpopulation of labeled NAs for the different physiological sources,

XX	31-JUL-1992.	PT	New nucleic acids, useful for inhibiting the synthesis of a target protein in a eukaryotic cell, or for treating various diseases by inhibiting the expression of abnormal or mutated proteins, e.g. leukemia, viral or bacterial infection.
XX	11-DEC-1990; 90JP-00401323.	PT	
XX	11-DEC-1990; 90JP-00401323.	XX	Example 6; Fig 7A; 38pp; English.
XX	(SUNR) SUNTORY LTD.	XX	The present invention relates to a method for suppressing gene expression in cells, particularly eukaryotic cells. The method involves a new nucleic acid comprising in a 5'-3' order: an RNA polymerase promoter sequence, a first target sequence that is essentially complementary to a sequence of a target nucleic acid or its complement, a spacer sequence, a second target sequence that is essentially complementary to the first target sequence, and an RNA polymerase termination signal, where an RNA target sequence, and an RNA polymerase can inhibit expression of the target gene. The RNA transcribed from the nucleic acid may form a hairpin structure. The polymerase is preferably RNA polymerase III (Pol III) and the polymerase termination signal comprises a number of thymidines sufficient for arresting Pol III activity. The nucleic acids and methods are useful for suppressing gene expression in cells, or inhibiting the synthesis of a target protein in a eukaryotic cell or in a cell of a subject. The nucleic acids can be used for treating various diseases by inhibiting the expression of abnormal or mutated proteins, e.g. cancers such as leukaemia, haemophilia, viral or bacterial infections, and neurodegenerative diseases including Alzheimer's disease, Parkinson's disease, Huntington's disease and amyotrophic lateral sclerosis (ALS).
XX	WPI; 1992-304666/37.	XX	The present sequence represents a partial DNA sequence from the wild-type human superoxide dismutase 1 (SOD1) gene.
XX	New hypotensive agents - comprise superoxidisedismutase with attached heparin binding site.	XX	Sequence 35 BP; 8 A; 6 C; 11 G; 10 T; 0 U; 0 Other;
XX	Disclosure; Page 4; 9pp; Japanese.	XX	Query Match 4.0%; Score 35; DB 1; Length 35;
XX	The sequences given in SEQ27817-20 are primers which were used to amplify the superoxidase dismutase (SOD) gene which is used in the production of a new hypotensive agent. The amplification product of these reactions is ligated to a heparin binding site (HBS). SOD does not naturally contain an HBS. This new construct can exert hypotensive activity in vivo as the active component can be concentrated in the blood vessel endothelial cells	XX	Best Local Similarity 100.0%; Pred. No. 5.1;
XX		XX	Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX	Sequence 40 BP; 14 A; 6 C; 12 G; 8 T; 0 U; 0 Other;	XX	
XX	Query Match 4.6%; Score 40; DB 1; Length 40;	XX	
XX	Best Local Similarity 100.0%; Pred. No. 2.1;	XX	
XX	Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	XX	
QY	464 GAAAGTACAAAGACAGGAAACGCTGGAAGTGGTTCGCTT 503	QY	329 ACTGCTGACAAAGATGCTGCGCCGATGCTCTAT 363
DB	1 GAAAGTACAAAGACAGGAAACGCTGGAAGTGGTTCGCTT 40	DB	1 ACTGCTGACAAAGATGCTGCGCCGATGCTCTAT 35
RESULT 8		RESULT 9	
AD52418		AD043055	
ID	AD52418 standard; DNA; 35 BP.	ID	AD043055 standard; mRNA; 35 BP.
XX		XX	
AC	AD52418;	AC	AD043055;
XX		XX	
DT	29-JAN-2004 (first entry)	DT	12-AUG-2004 (first entry)
XX		XX	
DE	Wild-type human SOD1 partial DNA sequence.	DE	Superoxide dismutase wild-type target for RNA interference.
XX		XX	
KW	Suppression of gene expression; eukaryotic cell; RNA polymerase promoter; target DNA sequence; RNA polymerase termination signal;	XX	Superoxide dismutase; SOD; enzyme; amyotrophic lateral sclerosis;
KW	hairpin structure; RNA polymerase III; RNA Pol III; mutated protein;	XX	RNA interference; gene silencing; human; ss.
KW	cancer; leukaemia; haemophilia; viral infection; bacterial infection;	XX	
KW	neurodegenerative disease; Alzheimer's disease; Parkinson's disease;	XX	
KW	Huntington's disease; amyotrophic lateral sclerosis; ALS; cytostatic;	XX	
KW	haemostatic; virucide; antibacterial; neuroprotective; nootropic;	XX	
KW	anticonvulsant; antiparkinsonian; human; superoxide dismutase 1; SOD1;	XX	
OS	ds.	OS	Homo sapiens.
XX		XX	
OS	Homo sapiens.	XX	WO2004042027-A2.
XX		XX	
PN	US2003180756-A1.	XX	21-MAY-2004.
XX		XX	
PD	25-SEP-2003.	XX	04-NOV-2003; 2003WO-US035009.
XX		XX	
PF	21-NOV-2002; 2002US-00301516.	XX	04-NOV-2002; 2002US-0423507P.
XX		XX	18-JUL-2003; 2003US-0488283P.
XX		XX	(UYMA-) UNIV MASSACHUSETTS.
XX		XX	
XX	(SHIY/) SHI Y.	XX	Xu Z, Zamore PD;
PA	(SUIG/) SUI G.	XX	WPI; 2004-390611/36.
XX		XX	
PI	Shi Y, Sui G;	XX	Inhibiting expression of a target allele in a cell comprising at least two different alleles of a gene, for treating CNS disorders, comprises administering to the cell an siRNA specific for the target allele.
XX		XX	
DR	WPI; 2003-852231/79.	XX	
XX		XX	

253 12.8 1.5 16 1 ADI53301 Target molecule de
254 12.8 1.5 16 1 ADO43601 Mutant DNA fragmen
c 255 12.6 1.4 13 1 ABH27646 Oligonucleotide SE
256 12.6 1.4 13 1 ABH27647 Oligonucleotide SE
257 12.6 1.4 15 1 ABK28501 Paraoxonase 2 (PON

ALIGNMENTS

RESULT 1
ABZ00314
ID ABZ00314 standard; DNA; 50 BP.
XX
AC ABZ00314;
XX
DT 09-JAN-2003 (first entry)
XX
DE Human leukocyte gene expression profiling probe SEQ ID NO 305.
XX
XX T7; leukocyte; gene expression profiling; allograft rejection;
KW atherosclerosis; congestive heart failure; systemic lupus erythematosus;
KW rheumatoid arthritis; osteoarthritis; cytomegalovirus; infection; probe;
KW ss.
XX
OS Homo sapiens.
XX
PN WO200257414-A2.
XX
PD 25-JUL-2002.
XX
PF 22-OCT-2001; 2001WO-US047856.
XX
PR 20-OCT-2000; 2000US-0241994P.
PR 08-JUN-2001; 2001US-0296764P.
XX
PA (BIOC-) BIOCARDIA INC.
XX
PI Wohlgenuth J, Fry K, Matcuk G, Altman P, Prentice J, Phillips J;
PI Ly N, Woodward R, Quertemous T, Johnson F;
XX
DR WPI; 2002-636525/68.
XX
XX New system for leukocyte expression profiling, diagnosing a disease, or
PT monitoring (the rate of) progression of a disease, e.g. atherosclerosis
PT or congestive heart failure, comprises diagnostic oligonucleotides.
XX
PS Claim 1; Page 336; Opp; English.
XX
CC The invention relates to a system for detecting gene expression, which
CC comprises one or two isolated DNA molecules that detect expression of a
CC gene, where the gene corresponds to any of 8143 oligonucleotides
CC (ABZ00010-ABZ08152) each having 50 base pairs (bp). The system is useful
CC for leukocyte expression profiling. It is particularly useful for
CC diagnosing a disease, monitoring (rate of) progression of a disease,
CC predicting therapeutic outcome, determining prognosis for a patient,
CC predicting disease complications in an individual or monitoring response
CC to treatment in an individual. The diseases include cardiac allograft
CC rejection, kidney allograft rejection, liver allograft rejection,
CC atherosclerosis, congestive heart failure, systemic lupus erythematosus,
CC rheumatoid arthritis, osteoarthritis or cytomegalovirus infection
XX
SQ Sequence 50 BP; 9 A; 15 C; 9 G; 17 T; 0 U; 0 Other;

Query Match 5.7%; Score 50; DB 1; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 530 ACATTCCCTGGATGAGTCTGAGGCCCTTAACCTCATCTGTTATCTCTGC 579
DB 1 ACATTCCCTGGATGAGTCTGAGGCCCTTAACCTCATCTGTTATCTCTGC 50

RESULT 2
ABZ01960
ID ABZ01960 standard; DNA; 50 BP.
XX
AC ABZ01960;
XX
DT 09-JAN-2003 (first entry)
XX
DE Human leukocyte gene expression profiling probe SEQ ID NO 1951.
XX
XX T7; leukocyte; gene expression profiling; allograft rejection;
KW atherosclerosis; congestive heart failure; systemic lupus erythematosus;
KW rheumatoid arthritis; osteoarthritis; cytomegalovirus; infection; probe;
KW ss.
XX
OS Homo sapiens.
XX
PN WO200257414-A2.
XX
PD 25-JUL-2002.
XX
PF 22-OCT-2001; 2001WO-US047856.
XX
PR 20-OCT-2000; 2000US-0241994P.
PR 08-JUN-2001; 2001US-0296764P.
XX
PA (BIOC-) BIOCARDIA INC.
XX
PI Wohlgenuth J, Fry K, Matcuk G, Altman P, Prentice J, Phillips J;
PI Ly N, Woodward R, Quertemous T, Johnson F;
XX
DR WPI; 2002-636525/68.
XX
XX New system for leukocyte expression profiling, diagnosing a disease, or
PT monitoring (the rate of) progression of a disease, e.g. atherosclerosis
PT or congestive heart failure, comprises diagnostic oligonucleotides.
XX
PS Claim 1; Page 388; Opp; English.
XX
CC The invention relates to a system for detecting gene expression, which
CC comprises one or two isolated DNA molecules that detect expression of a
CC gene, where the gene corresponds to any of 8143 oligonucleotides
CC (ABZ00010-ABZ08152) each having 50 base pairs (bp). The system is useful
CC for leukocyte expression profiling. It is particularly useful for
CC diagnosing a disease, monitoring (rate of) progression of a disease,
CC predicting therapeutic outcome, determining prognosis for a patient,
CC predicting disease complications in an individual or monitoring response
CC to treatment in an individual. The diseases include cardiac allograft
CC rejection, kidney allograft rejection, liver allograft rejection,
CC atherosclerosis, congestive heart failure, systemic lupus erythematosus,
CC rheumatoid arthritis, osteoarthritis or cytomegalovirus infection
XX
SQ Sequence 50 BP; 9 A; 15 C; 9 G; 17 T; 0 U; 0 Other;

Query Match 5.7%; Score 50; DB 1; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 530 ACATTCCCTGGATGAGTCTGAGGCCCTTAACCTCATCTGTTATCTCTGC 579
DB 1 ACATTCCCTGGATGAGTCTGAGGCCCTTAACCTCATCTGTTATCTCTGC 50

RESULT 3
ADE52413
ID ADE52413 standard; RNA; 48 BP.
XX
AC ADE52413;
XX
DT 29-JAN-2004 (first entry)
XX
DE Wild-type human SOD1 partial RNA sequence.
XX

[illegible]

